



LARGE SYNOPTIC SURVEY TELESCOPE

# Large Synoptic Survey Telescope (LSST) Bibliography Verification

**Automated Content**

**LSST-test**

**Latest Revision: 2017-05-06**

## **Abstract**

Standard LSST document class example but using all bibtex entries. This allows the bib files to be tested as well as the associated bibtex style.



## Contents

<b>1 Introduction</b>	<b>1</b>
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# Bibliography Verification

## 1 Introduction

In the following pages, all bibliographic entries from this repository will be listed. These are used to test that the entries in the relevant .bib files are formatted correctly. Bibtex will issue Warnings but the build will only be stopped if Errors are located.

Test the standard references to baseline documents: (SRD), DPDD, LSR, OSS, DMSR, LDM-133, LDM-134, SUID, DMSD, MOPSD, DMMD, DM OpsCon, (LSE-63), LSE-180, UCAL.

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\citedsp: [LPM-17]
\citedsp[]: [Verify] [Requirements]
\citeds: (SRD; LPM-17, LSE-29)
\citeds[]: LDM-503
\citep[]{}: [e.g., 255, 120, are interesting]
\cite: [255, 120]
```

## References

- [1] , Datatag, research & technological development for a data transatlantic grid, <http://datatag.web.cern.ch/datatag/project.html>, URL <http://datatag.web.cern.ch/datatag/project.html>
- [2] , Gaia Acronyms List, <http://www.rssd.esa.int/Ageneral/Projects/GAIA/paramdb/glossary.txt>
- [3] , Gaia Parameter Database at <http://www.rssd.esa.int/\discretionary{-}{ }{ }Gaia/\discretionary{-}{ }{ }paramdb>
- [4] , Linpack standard numerical benchmark, <http://www.top500.org/lists/linpack.php>

- [5] ,  
TOP500 Supercomputer Sites, <http://www.top500.org>
- [6] 1987, *Telemetry Summary of Concept and Rationale, Green Book*, Tech. rep., Consultative Committee for Space Data Systems,  
CCSDS 100.0-G-1, <http://www.ccsds.org/documents/100x0g1.pdf>
- [7] **[LDM-]** 20, LDM-, URL <https://ls.st/LDM->
- [8] 2000, *Packet Telemetry, Blue Book*, Tech. rep., Consultative Committee for Space Data Systems,  
CCSDS 102.0-B-5, <http://www.ccsds.org/documents/102x0b5.pdf>
- [9] 2002, *Time Code Formats, Blue Book*, Tech. rep., Consultative Committee for Space Data Systems,  
CCSDS 301.0-B-3, <http://www.ccsds.org/documents/301x0b3.pdf>
- [10] 2002, *Telemetry Channel Coding, Blue Book*, Tech. rep., Consultative Committee for Space Data Systems,  
CCSDS 101.0-B-6, <http://www.ccsds.org/documents/101x0b6.pdf>
- [11] 2003, *Telemetric and Command Data Specification*, Tech. rep., Object Management Group — Space Domain Task Force,  
space/2003-03-04, <http://www.omg.org/docs/space/03-03-12.pdf>
- [12] 2005, Universal data transfer for the grid, <http://www-fp.globus.org/datagrid/deliverables/c2wpdraft3.pdf>, URL <http://www-fp.globus.org/datagrid/deliverables/C2WPdraft3.pdf>
- [13] 2009, *Astronomical Data Analysis Software and Systems XVIII*, Astronomical Society of the Pacific Conference Series, Astronomical Society of the Pacific
- [14] 2011, *Greenplum Database 4.1 Administrator Guide*, Tech. rep., EMC Corporation,  
<http://www.greenplum.com/community/downloads/documentation/>
- [15] 2011, *Greenplum Database 4.1 Installation Guide*, Tech. rep., EMC Corporation,  
<http://www.greenplum.com/community/downloads/documentation/>
- [16] 2016, *Agile software development in an earned value world: a survival guide*, vol. 9911,  
URL <http://dx.doi.org/10.1117/12.2233380>
- [17] 2016, *GAVIP: a platform for Gaia data analysis*, vol. 9913, URL <http://dx.doi.org/10.1117/12.2233619>

- [18] Abazajian, K., Adelman-McCarthy, J.K., Ageros, M.A., et al., 2009, *The Astrophysical Journal Supplement Series*, 182, doi:10.1088/0067-0049/182/2/543, ADS Link
- [19] Abrahamse, A., Knox, L., Schmidt, S., et al., 2011, *ApJ*, 734, 36 (arXiv:1011.2239), doi:10.1088/0004-637X/734/1/36, ADS Link
- [20] Allende Prieto, C., 2007, *AJ*, 134, 1843 (arXiv:0707.2764), doi:10.1086/522051, ADS Link
- [21] **[LSE-16]**, Allsman, R., Dubois-Felsmann, G., Kantor, J., 2009, *LSST Software Development Plan*, LSE-16, URL <https://ls.st/LSE-16>
- [22] AlSayyad, Y., Connolly, A.J., Becker, A.C., et al., 2013, In: American Astronomical Society Meeting Abstracts #221, vol. 221 of American Astronomical Society Meeting Abstracts, #152.02, ADS Link
- [23] AlSayyad, Y., McGreer, I., Connolly, A., et al., 2015, Case study: Classifying high redshift quasars on the lsst-reprocessed sdss stripe 82 imaging, URL <http://www.noao.edu/meetings/bigdata/files/AlSayyad.pdf>
- [24] Amaro-Seoane, P., Aoudia, S., Babak, S., et al., 2013, *GW Notes*, Vol. 6, p. 4-110, 6, 4 (arXiv:1201.3621), ADS Link
- [25] Angeli, F.D., 2005, *The Gaia Software Toolbox - User guide*, Tech. rep., IoA, [http://www.rssd.esa.int/SA-general/Projects/GAIA/wiki/index.php?title=CU1:\\_GaiaTools](http://www.rssd.esa.int/SA-general/Projects/GAIA/wiki/index.php?title=CU1:_GaiaTools)
- [26] **[Document-11920]**, Angeli, G., McKercher, R., 2013, *Document Cover Page and Style Guide*, Document-11920, URL <https://ls.st/Document-11920>
- [27] **[Document-9224]**, Angeli, G., McKercher, R., 2013, *Change Controlled Document Cover Page and Style Guide*, Document-9224, URL <https://ls.st/Document-9224>
- [28] **[LPM-19]**, Angeli, G., McKercher, R., 2015, *Change Control Process*, LPM-19, URL <https://ls.st/LPM-19>
- [29] Ansari, S., Torra, J., López, P.P., et al., *Algorithm Interface Control Document*, Tech. rep., Configuration Control Board, CCB-GDAAS-ICD-001
- [30] Ansari, S.G., Torra, J., Luri, X., et al., 2003, In: *Science and Technology*, ASP Conference Series, vol. 298, page 97

- [31] Ansari, S.G., Lammers, U., ter Linden, M., 2005, In: Proc. Astronomical Data Analysis Software and Systems XIV, vol. 347, 429–, Astronomical Society of the Pacific
- [32] Arenou, F., Chéreau, F.,  
private communication
- [33] Arenou, F., Lindegren, L., Froeschle, M., et al., 1995, A&A, 304, 52, ADS Link
- [34] Axelrod, T., 2005, Events in the LSST, URL [http://wiki.ivoa.net/internal/IVOA/V0EventSchedule/tim\\_axelrod.ppt](http://wiki.ivoa.net/internal/IVOA/V0EventSchedule/tim_axelrod.ppt)
- [35] Axelrod, T., 2007, In: Babu, G.J., Feigelson, E.D. (eds.) Statistical Challenges in Modern Astronomy IV, vol. 371 of Astronomical Society of the Pacific Conference Series, 142, ADS Link
- [36] Axelrod, T., Kantor, J., 2010, Supercomputing 2010, LSST Corporation, Supercomputing Conference, URL <https://docushare.lsstcorp.org/docushare/dsweb/Get/Document-10284/>
- [37] Axelrod, T., Connolly, A., Ivezić, Z., et al., 2004, In: American Astronomical Society Meeting Abstracts, vol. 36 of Bulletin of the American Astronomical Society, #108.11, ADS Link
- [38] Axelrod, T., Becker, A., Connolly, A., et al., 2005, In: American Astronomical Society Meeting Abstracts, vol. 37 of Bulletin of the American Astronomical Society, 1207, ADS Link
- [39] Axelrod, T., Becla, J., Connolly, A., et al., 2007, In: American Astronomical Society Meeting Abstracts, vol. 211 of American Astronomical Society Meeting Abstracts, #137.26–+, ADS Link
- [40] Axelrod, T., Kantor, J., Lupton, R.H., Pierfederici, F., 2010, In: Radziwill, N.M., Bridger, A. (eds.) Software and Cyberinfrastructure for Astronomy, vol. 7740 of Proc. SPIE, 15, doi:10.1117/12.857297, ADS Link
- [41] Axelrod, T.S., 2006, In: Gabriel, C., Arviset, C., Ponz, D., Enrique, S. (eds.) Astronomical Data Analysis Software and Systems XV, vol. 351 of Astronomical Society of the Pacific Conference Series, 103, ADS Link
- [42] Axelrod, T.S., Allsman, R., Becker, A., et al., 2006, In: American Astronomical Society Meeting Abstracts, vol. 38 of Bulletin of the American Astronomical Society, 1018, ADS Link

- [43] Axelrod, T.S., Becker, A., Becla, J., et al., 2009, In: American Astronomical Society Meeting Abstracts #213, vol. 41 of Bulletin of the American Astronomical Society, #460.30, ADS Link
- [44] Baccaro, S., Cecilia, A., Di Sarcina, I., Piegari, A.M., 2004, In: E. Atad-Ettinger & P. Dierickx (ed.) Society of Photo-Optical Instrumentation Engineers (SPIE) Conference Series, vol. 5494 of Presented at the Society of Photo-Optical Instrumentation Engineers (SPIE) Conference, 529–535, doi:10.1117/12.553602, ADS Link
- [45] Baccaro, S., Piegari, A., Di Sarcina, I., Cecilia, A., 2005, IEEE transactions on nuclear science, 52, 1779
- [46] Bailer-Jones, C.A.L., 2002, Astrophysics and Space Science, 280, 21 (arXiv:astro-ph/0201014), ADS Link
- [47] Bailer-Jones, C.A.L., 2003, In: Munari, U. (ed.) GAIA Spectroscopy: Science and Technology, vol. 298 of Astronomical Society of the Pacific Conference Series, 199–+, ADS Link
- [48] Bailer-Jones, C.A.L., 2004, A&A, 419, 385 (arXiv:astro-ph/0402591), doi:10.1051/0004-6361:20035779, ADS Link
- [49] Bailer-Jones, C.A.L., 2005, In: Turon, C., O’Flaherty, K.S., Perryman, M.A.C. (eds.) ESA SP-576: The Three-Dimensional Universe with Gaia, 393–+, ADS Link
- [50] Bailer-Jones, C.A.L., Andrae, R., Arcay, B., et al., 2013, A&A, 559, A74 (arXiv:1309.2157), doi:10.1051/0004-6361/201322344, ADS Link
- [51] Bastian, U., Biermann, M., 2005, A&A, 438, 745, doi:10.1051/0004-6361:20042372, ADS Link
- [52] Bastian, U., Gilmore, G., Halbwachs, J., et al., 1993, *ROEMER*, Tech. rep., Lund Observatory, Proposal for a Third Medium Size ESA Mission (M3), Lund 1993
- [53] Beck, K., 1999, *Extreme Programming Explained: Embrace Change*, Addison-Wesley, 1st edn.
- [54] Becker, A., 2007, Transient object detection and classification, URL <http://wiki.ivoa.net/twiki/bin/view/IVOA/HotwiredWorkshop>, Hot-wiring the Transient Universe: a Joint VOEvent & HTN Workshop June 4 - 7, 2007, Tucson, Arizona

- [55] Becker, A., 2014, Flexible and Scalable Methods for Time-Series Characterization, URL <http://eventos.cmm.uchile.cl/astro2014/wp-content/uploads/sites/13/2014/06/Astroinformatics2014.pdf>
- [56] Becker, A., Axelrod, T., Ivezić, Z., et al., 2005, In: American Astronomical Society Meeting Abstracts, vol. 37 of Bulletin of the American Astronomical Society, 1206, ADS Link
- [57] Becker, A., Silvestri, N., Owen, R., Ivezić, Ž., Lupton, R., 2007, PASP, 119, 1462 (arXiv:0712.0637), doi:10.1086/524710, ADS Link
- [58] **[LDM-227]**, Becker, A., Krughoff, S., Connolly, A., et al., 2013, *Report on Late Winter 2013 Production: Image Differencing*, LDM-227, URL <https://ls.st/LDM-227>
- [59] Becker, A.C., Rest, A., Miknaitis, G., Smith, R.C., Stubbs, C., 2004, In: American Astronomical Society Meeting Abstracts, vol. 36 of Bulletin of the American Astronomical Society, #108.12, ADS Link
- [60] Becker, A.C., Silvestri, N., Owen, R., et al., 2009, In: American Astronomical Society Meeting Abstracts #213, vol. 41 of Bulletin of the American Astronomical Society, #460.28, ADS Link
- [61] Becker, A.C., Bloom, J.S., Walkowicz, L.M., Collaboration, L., 2011, In: American Astronomical Society Meeting Abstracts #217, vol. 43 of Bulletin of the American Astronomical Society, #252.12, ADS Link
- [62] Becla, J., 2009, Scidb: Open source data management system for data-intensive scientific analytics, URL <http://www.slideshare.net/sdsc/scidb-open-source-data-management-system-for-dataintensive-scientific-analytics>, Talk at San Diego Supercomputer Center
- [63] Becla, J., 2010, ADASS XX, SLAC National Accelerator Laboratory, Astronomical Data Analysis Software and Systems
- [64] **[LDM-139]**, Becla, J., 2013, *Data Management Storage Sizing and I/O Model Explanation*, LDM-139, URL <https://ls.st/LDM-139>
- [65] Becla, J., 2014, In: Taylor, A.R., Rosolowsky, E. (eds.) *Astronomical Data Analysis Software and Systems XXIV (ADASS XXIV)*, Astronomical Society of the Pacific Conference Series
- [66] Becla, J., 2015, Enabling scalable data analytics for lsst and beyond through qserv, URL <http://www.noao.edu/meetings/bigdata/files/becla.pdf>



- [67] Becla, J., Lim, K.T., 2008, *Data Science Journal*, 7, doi:10.2481/dsj.7.1
- [68] Becla, J., Lim, K.T., 2008, *Data Science Journal*, 7, doi:10.2481/dsj.7.88
- [69] Becla, J., Wang, D.L., 2014, In: *Exascale Radio Astronomy*, vol. 2, ADS Link
- [70] Becla, J., Nikolaev, S., Abdulla, G., et al., 2005, In: *American Astronomical Society Meeting Abstracts*, vol. 37 of *Bulletin of the American Astronomical Society*, 1207, ADS Link
- [71] Becla, J., Hanushevsky, A., Nikolaev, S., et al., 2006, In: Silva, D.R., Doxsey, R.E. (eds.) *Observatory Operations: Strategies, Processes, and Systems*, vol. 6270 of *Proc. SPIE*, 0 (arXiv:cs/0604112), doi:10.1117/12.671721, ADS Link
- [72] Becla, J., Lim, K.T., Wang, D.L., 2010, *Data Science Journal*, 8, MR1, doi:10.2481/dsj.xldb09
- [73] Becla, J., Lim, K.T., Wang, D.L., 2012, *Facts about xldb-2011*, URL <http://www.osti.gov/scitech/biblio/1035489/>
- [74] **[LDM-135]**, Becla, J., Wang, D., Monkewitz, S., et al., 2013, *Database Design*, LDM-135, URL <https://ls.st/LDM-135>
- [75] **[DMTN-020]**, Becla, J., Economou, F., Gelman, M., et al., 2016, *Project Management Guide*, DMTN-020, URL <https://dmtn-020.lsst.io/>
- [76] **[LDM-472]**, Becla, J., Economou, F., Mueller, F., et al., 2017, *LSST DM Project Management and Tools*, LDM-472, URL <https://ls.st/LDM-472>
- [77] Beletic, J.W., Blank, R., Gulbransen, D., et al., 2008, In: *Society of Photo-Optical Instrumentation Engineers (SPIE) Conference Series*, vol. 7021 of *Society of Photo-Optical Instrumentation Engineers (SPIE) Conference Series*, 70210H, doi:10.1117/12.790382, ADS Link
- [78] Bini, D., Crosta, M.T., de Felice, F., 2003, *Classical and Quantum Gravity*, 20, 4695, doi:10.1088/0264-9381/20/21/009, ADS Link
- [79] Bloch, J., 2001, *Writing Effective Java*, Addison-Wesley, 1st edn.
- [80] Bloom, J.S., Richards, J.W., Nugent, P.E., et al., 2012, *PASP*, 124, 1175 (arXiv:1106.5491), doi:10.1086/668468, ADS Link
- [81] **[IVOAMOC]**, Boch, T., Donaldson, T., Durand, D., et al., 2014, *MOC - HEALPix Multi-Order Coverage map Version 1.0*, URL <http://www.ivoa.net/documents/MOC/>

- [82] Bolton, A., Ciardi, D., Olsen, K., 2016, Datasphere 2023, URL <http://dx.doi.org/10.5281/zenodo.51772>,  
Presented at the LSST OIR workshop, Tucson, May 2016
- [83] Bombrun, A., Lindegren, L., Holl, B., Jordan, S., 2010, *A&A*, 516, A77, doi:10.1051/0004-6361/200913503, ADS Link
- [84] Bombrun, A., Lindegren, L., Hobbs, D., et al., 2012, *Astronomy and Astrophysics*, 538, A77, DOI: <http://dx.doi.org/10.1051/0004-6361/201117904>
- [85] Bonnarel, F., Fernique, P., Bienaymé, O., et al., 2000, *A&AS*, 143, 33, doi:10.1051/aas:2000331, ADS Link
- [86] Booch, G., Rumbaugh, J., Jacobson, I., 2005, *The Unified Modeling Language User Guide*, Addison-Wesley Professional, 2nd edn.
- [87] de Boor, C., 2001, *A Practical Guide to Splines*, Springer, revised edn.
- [88] Borne, K., Becla, J., Davidson, I., Szalay, A., Tyson, J.A., 2008, In: Bailer-Jones, C.A.L. (ed.) American Institute of Physics Conference Series, vol. 1082 of American Institute of Physics Conference Series, 347–351 (arXiv:0811.0167), doi:10.1063/1.3059074, ADS Link
- [89] Borne, K., Accomazzi, A., Bloom, J., et al., 2009, In: astro2010: The Astronomy and Astrophysics Decadal Survey, vol. 2010 of ArXiv Astrophysics e-prints, 6P (arXiv:0909.3892), ADS Link
- [90] Borne, K.D., Jacoby, S., Carney, K., et al., 2009, In: astro2010: The Astronomy and Astrophysics Decadal Survey, vol. 2010 of ArXiv Astrophysics e-prints, 7P (arXiv:0909.3895), ADS Link
- [91] Bosch, J., 2015, Correcting sensor systematics in DM, URL <https://indico.bnl.gov/getFile.py/access?contribId=11&resId=1&materialId=slides&confId=1604>
- [92] Bosch, J., 2015, Data management status, URL <http://dx.doi.org/10.5281/zenodo.47334>,  
Presented at the DEC 2015 Fall Meeting, Argonne National Laboratory
- [93] Bosch, J., 2016, LSST Classes, as AstroPy Spin-Off Candidates, URL <http://dx.doi.org/10.5281/zenodo.48435>,  
Presented at LSST/Astropy Summit, March 2016, Seattle

- [94] **[Document-15298]**, Bosch, J., Gee, P., Owen, R., Juric, M., 2013, *LSST DM S13 Report: Shapre Measurement Plans and Prototypes*, Document-15298, URL <https://ls.st/Document-15298>
- [95] Bradley, J., 1727, Royal Society of London Philosophical Transactions Series I, 35, 637, ADS Link
- [96] Bretagnon, P., 1982, A&A, 114, 278, ADS Link
- [97] Bretagnon, P., Francou, G., 1988, A&A, 202, 309, ADS Link
- [98] Brett, D.R., West, R.G., Wheatley, P.J., 2004, MNRAS, 353, 369 (arXiv:astro-ph/0408118), doi:10.1111/j.1365-2966.2004.08093.x, ADS Link
- [99] Brown, A.G.A., 2005, In: Turon, C., O’Flaherty, K.S., Perryman, M.A.C. (eds.) ESA SP-576: The Three-Dimensional Universe with Gaia, 377–+, ADS Link
- [100] Brown, S., 2010, *Characterisation and Mitigation of Radiation Damage on the Gaia Astrometric Field*, Ph.D. thesis, Institute of Astronomy, University of Cambridge, Madingley Road, Cambridge, CB3 0HA, United Kingdom
- [101] de Bruijne, J., 2004, private communication
- [102] de Bruijne, J., Jordi, C., 2004, URL <http://gaia.am.ub.es/PWG/common/instrumGAI2.html>, private communication
- [103] Brumfit, J., 2002, *Java Coding Standard and Guidelines for the Herschel Common Science System*, Tech. rep., ESTEC, HSCDT/TN009
- [104] Bucciarelli, B., Taff, L.G., Lattanzi, M.G., 1993, J. Statist. Comput. Simul., 48, 29
- [105] Bucciarelli, B., Lattanzi, M.G., Taff, L.G., 1994, ApJ, 433, 831, doi:10.1086/174692, ADS Link
- [106] Burt, D., 2003, *Gaia Technology Demonstrator: AF CCD DESIGN REPORT*, Tech. rep., e2v, GAIA-E2V-RP-020
- [107] Bus, S.J., Binzel, R.P., 2002, Icarus, 158, 106, doi:10.1006/icar.2002.6857, ADS Link
- [108] Bus, S.J., Binzel, R.P., 2002, Icarus, 158, 146, doi:10.1006/icar.2002.6856, ADS Link
- [109] Bus, S.J., Binzel, R.P., 2002, Icarus, 158, 106

- [110] Busonero, D., Gai, M., Gardiol, D., Lattanzi, M.G., Loreggia, D., 2006, *A&A*, 449, 827 (arXiv:astro-ph/0511572), doi:10.1051/0004-6361:20054180, ADS Link
- [111] Cardelli, J.A., Clayton, G.C., Mathis, J.S., 1989, *ApJ*, 345, 245, doi:10.1086/167900, ADS Link
- [112] Casertano, S., Hut, P., 1985, *ApJ*, 298, 80, doi:10.1086/163589, ADS Link
- [113] Chamberlin D., B.R., 1974, *SEQUL: A Structured English Query Language*, Tech. rep., IBM research laboratory, <http://faculty.cse.tamu.edu/yurttas/PL/DBL/docs/sequel-1974.pdf>
- [114] Chorier, P., Tribolet, P., Destéfanis, G., 2006, In: Society of Photo-Optical Instrumentation Engineers (SPIE) Conference Series, vol. 6206 of Society of Photo-Optical Instrumentation Engineers (SPIE) Conference Series, 620601, doi:10.1117/12.669128, ADS Link
- [115] Ciardi, D., 2016, Large Synoptic Survey Telescope and Synergies with the VO, URL [http://wiki.ivoa.net/internal/IVOA/InterOpMay2016Focus/LSST\\_IVOA\\_20160506c.pdf](http://wiki.ivoa.net/internal/IVOA/InterOpMay2016Focus/LSST_IVOA_20160506c.pdf), Presentation at the Northern Spring IVOA Meeting, South Africa
- [116] Ciardi, D.R., 2016, LSST and Synergies with the VO, URL <http://dx.doi.org/10.5281/zenodo.44635>, Talk presented at the US Virtual Observatory Alliance Annual Meeting held at the Annual Astronomical Society meeting 227.
- [117] **[LDM-492]**, Ciardi, D.R., Wu, X., Dubois-Felsmann, G., 2016, *A Vision for the Science User Interface and Tools*, LDM-492, URL <https://ls.st/LDM-492>
- [118] Claeskens, J.F., Smette, A., Vandenbulcke, L., Surdej, J., 2006, *MNRAS*, 367, 879, doi:10.1111/j.1365-2966.2006.10024.x, ADS Link
- [119] **[LSE-17]**, Claver, C., Angeli, G., Selvy, B., 2016, *Systems Engineering Management Plan*, LSE-17, URL <https://ls.st/LSE-17>
- [120] **[LSE-29]**, Claver, C.F., The LSST Systems Engineering Integrated Project Team, 2016, *LSST System Requirements*, LSE-29, URL <https://ls.st/LSE-29>
- [121] **[LSE-30]**, Claver, C.F., The LSST Systems Engineering Integrated Project Team, 2016, *LSST System Requirements*, LSE-30, URL <https://ls.st/LSE-30>
- [122] Claver, C.F., Sweeney, D.W., Tyson, J.A., et al., 2004, In: Oschmann, J.M., Jr. (ed.) *Ground-based Telescopes*, vol. 5489 of Proc. SPIE, 705–716, doi:10.1117/12.561728, ADS Link

- [123] Claver, C.F., Dubois-Felsmann, G.P., Delgado, F., et al., 2010, In: American Astronomical Society Meeting Abstracts #215, vol. 42 of Bulletin of the American Astronomical Society, #401.02, ADS Link
- [124] Colangelo, G., 2004, *Gaia System Requirements Document for Technical Assistance & Definition Phase*, Tech. rep., ESA, Gaia-SRC-001, Issue 1.0
- [125] Collins, J., 2001, *Good to Great: Why Some Companies Make the Leap...And Others Don't*, HarperCollins, URL <http://books.google.es/books?id=Q7ja95uwUT4C>
- [126] Comoretto, G., Gallegos, J., Els, S., et al., 2012, In: Society of Photo-Optical Instrumentation Engineers (SPIE) Conference Series, vol. 8449 of Society of Photo-Optical Instrumentation Engineers (SPIE) Conference Series, doi:10.1117/12.926797, ADS Link
- [127] Connolly, A., 2002, Data Management for the LSST, Invited talk. Paper not submitted to proceedings.
- [128] Connolly, A., 2016, Surveying the Sky with the LSST: Software as the instrument of the Next Decade, URL <http://dx.doi.org/10.5281/zenodo.56737>, Plenary talk at the SPIE Astronomical Telescopes and Instrumentation Conference, Edinburgh, UK
- [129] Connolly, A., Boroson, T.A., 2002, In: Quinn, P.J. (ed.) Observatory Operations to Optimize Scientific Return III, vol. 4844 of Proc. SPIE, 225–231, doi:10.1117/12.460742, ADS Link
- [130] Connolly, A., LSST Team, 2002, In: American Astronomical Society Meeting Abstracts, vol. 34 of Bulletin of the American Astronomical Society, #134.05, ADS Link
- [131] Connolly, A.J., Smith, I., Krughoff, K.S., Gibson, R., 2011, In: Evans, I.N., Accomazzi, A., Mink, D.J., Rots, A.H. (eds.) *Astronomical Data Analysis Software and Systems XX*, vol. 442 of Astronomical Society of the Pacific Conference Series, 443, ADS Link
- [132] Corporation, O., 2006, *Installing Oracle RAC 10g on Linux x86*, Tech. rep., [http://www.oracle.com/technology/pub/articles/smiley\\_rac10g\\_install.html](http://www.oracle.com/technology/pub/articles/smiley_rac10g_install.html)
- [133] Cropper, M., Rosen, S., Spectra extraction, CU6 Workshop2, [http://wwwhip.obspm.fr/gaia/cu6/workshop\\_2/DM6\\_w2\\_Cropper\\_extraction.pdf](http://wwwhip.obspm.fr/gaia/cu6/workshop_2/DM6_w2_Cropper_extraction.pdf)

- [134] Crosta, M.T., 2003, *Methods of Relativistic Astrometry for the analysis of astrometric data in the Solar System gravitational field*, Ph.D. thesis
- [135] Crosta, M.T., Mignard, F., 2005, In: Turon, C., O’Flaherty, K.S., Perryman, M.A.C. (eds.) *The Three-Dimensional Universe with Gaia*, vol. 576 of ESA Special Publication, 281–+, ADS Link
- [136] Crosta, M.T., Mignard, F., 2006, *Classical and Quantum Gravity*, 23, 4853 (arXiv:astro-ph/0512359), doi:10.1088/0264-9381/23/15/006, ADS Link
- [137] Cudre-Mauroux, P., Kimura, H., Lim, K.T., et al., 2009, *Proc. VLDB Endow.*, 2, 1534, URL <http://dx.doi.org/10.14778/1687553.1687584>, doi:10.14778/1687553.1687584
- [138] de Bruijne, J., Kohley, R., Prusti, T., 2010, In: *Society of Photo-Optical Instrumentation Engineers (SPIE) Conference Series*, vol. 7731 of *Society of Photo-Optical Instrumentation Engineers (SPIE) Conference Series*, doi:10.1117/12.862062, ADS Link
- [139] de Bruijne, J.H.J., Lammers, U., Perryman, M.A.C., 2005, In: C. Turon, K. S. O’Flaherty, & M. A. C. Perryman (ed.) *The Three-Dimensional Universe with Gaia*, vol. 576 of ESA Special Publication, 67–+, ADS Link
- [140] de Felice, F., Preti, G., 2006, *Classical and Quantum Gravity*, 23, 5467, doi:10.1088/0264-9381/23/18/001, ADS Link
- [141] de Felice, F., Lattanzi, M.G., Vecchiato, A., Bernacca, P.L., 1997, In: R. M. Bonnet, E. Høg, P. L. Bernacca, L. Emiliani, A. Blaauw, C. Turon, J. Kovalevsky, L. Lindegren, H. Hassan, M. Bouffard, B. Strim, D. Heger, M. A. C. Perryman, & L. Woltjer (ed.) *Hipparcos - Venice '97*, vol. 402 of ESA Special Publication, 767–770, ADS Link
- [142] de Felice, F., Lattanzi, M.G., Vecchiato, A., Bernacca, P.L., 1998, *A&A*, 332, 1133, ADS Link
- [143] de Felice, F., Bucciarelli, B., Lattanzi, M.G., Vecchiato, A., 2001, *A&A*, 373, 336, doi:10.1051/0004-6361:20010499, ADS Link
- [144] de Felice, F., Crosta, M.T., Vecchiato, A., Lattanzi, M.G., Bucciarelli, B., 2004, *Apj*, 607, 580 (arXiv:astro-ph/0401637), doi:10.1086/383244, ADS Link
- [145] de Felice, F., Vecchiato, A., Crosta, M.T., Lattanzi, M.G., Bucciarelli, B., 2006, *Apj*, 653, 1552, doi:10.1051/0004-6361:20042372, ADS Link
- [146] Dehnen, W., Binney, J.J., 1998, *MNRAS*, 298, 387 (arXiv:astro-ph/9710077), doi:10.1046/j.1365-8711.1998.01600.x, ADS Link

- [147] Dierckx, P., 1995, *C and Surface Fitting with Splines*, Oxford Science Publications, Oxford University Press, paperback edn.
- [148] Dossa, D., Matarazzo, C., Marshall, S., et al., 2005, In: American Astronomical Society Meeting Abstracts, vol. 37 of Bulletin of the American Astronomical Society, 1207, ADS Link
- [149] Dossa, D., Smith, R., Lambert, R., et al., 2006, In: Silva, D.R., Doxsey, R.E. (eds.) *Observatory Operations: Strategies, Processes, and Systems*, vol. 6270 of *Astronomical Telescopes and Instrumentation*, SPIE, SPIE
- [150] Dowler, P., Rixon, G., Tody, D., 2011, ArXiv e-prints (arXiv:1110.0497), ADS Link
- [151] Dowler P., T.D., Rixon G., 2010, *Table Access Protocol*, Tech. rep., IVOA, REC-TAP-1.0
- [152] Drimmel, R., Spergel, D.N., 2001, *ApJ*, 556, 181, doi:10.1086/321556, ADS Link
- [153] **[LSE-81]**, Dubois-Felsmann, G., 2013, *LSST Science and Project Sizing Inputs*, LSE-81, URL <https://ls.st/LSE-81>
- [154] **[LSE-61]**, Dubois-Felsmann, G., 2016, *LSST Data Management Subsystem Requirements*, LSE-61, URL <https://ls.st/LSE-61>
- [155] Dubois-Felsmann, G.P., Axelrod, T., Becker, A., et al., 2010, In: American Astronomical Society Meeting Abstracts #215, vol. 42 of Bulletin of the American Astronomical Society, #401.23, ADS Link
- [156] Dubois-Felsmann, G.P., Goldina, T., Ly, L., et al., 2016, In: American Astronomical Society Meeting Abstracts, vol. 227 of American Astronomical Society Meeting Abstracts, #348.06, doi:10.5281/zenodo.44653, ADS Link
- [157] EADS Astrium, 2004, *GAIA Point Spread Function and internal straylight evaluation*, Tech. rep., GAIASYS.NT.00134.T.ASTR
- [158] EADS Astrium, 2010, *GAIA PLM TB/TV test specification: functional and performance tests*, Tech. rep., GAIA.ASF.SP.PLM.00174
- [159] EADS Astrium, 2011, *Gaia Attitude- and Orbit-Control sub-System Normal Mode Final Tuning and Stability Analysis*, Tech. rep., GAIA.ASU.TCN.ESM.00153

- [160] Economou, F., 2014, In: Taylor, A.R., Rosolowsky, E. (eds.) *Astronomical Data Analysis Software and Systems XXIV (ADASS XXIV)*, Astronomical Society of the Pacific Conference Series
- [161] Economou, F., 2016, Software development with distributed teams in large astronomy projects: The LSST experience (so far), URL <http://dx.doi.org/10.5281/zenodo.56342>, Seminar given at SKA Headquarters, Jodrell Bank, 23rd June 2016
- [162] Economou, F., 2016, The astronomer, the software engineer, and the cloud, URL <http://dx.doi.org/10.5281/zenodo.>, Talk at the SPIE Astronomical Telescopes and Instrumentation Conference, Edinburgh, UK
- [163] ESA, 1997, *The Hipparcos and Tycho Catalogues*, ESA, ESA SP-1200
- [164] ESA, 2000, *GAIA — Composition, Formation and Evolution of the Galaxy*, Tech. rep., Concept and Technology Study Report, ESA-SCI(2000)4
- [165] **[ESA/SPC(2009)6]**, ESA, 2009, *Licensing of Data Processing Software for the Science Programme*, ESA/SPC(2009)6
- [166] **[ECSS-M-30-01A]**, ESA Publications Division, 1999, *Organization and Conduct of Reviews*, ECSS-M-30-01A
- [167] **[ECSS-M-00-02A]**, ESA Publications Division, 2000, *Project Organisation*, ECSS-M-00-02A
- [168] **[ECSS-E-10-6a]**, ESA Publications Division, 2003, *Functional and Technical Specifications*, ECSS-E-10 part 6a
- [169] **[ECSS-Q-80B]**, ESA Publications Division, 2003, *Software Product Assurance*, ECSS-Q-80B
- [170] **[ECSS-M-10B]**, ESA Publications Division, 2003, *Project Breakdown Structures*, ECSS-M-10B
- [171] **[ECSS-M-20B]**, ESA Publications Division, 2003, *Project Organisation*, ECSS-M-20B
- [172] **[ECSS-M-30B]**, ESA Publications Division, 2003, *Project Phasing and Planning*, ECSS-M-30B



- [173] **[ECSS-M-40B]**, ESA Publications Division, 2003, *Space Project Management - configuration management*,  
ECSS-M-40B
- [174] **[ECSS-M-50B]**, ESA Publications Division, 2003, *Space Project Management - information/documentation management*,  
ECSS-M-50B Draft 8
- [175] **[ECSS-E-40-1B]**, ESA Publications Division, 2003, *Space engineering - Software - Part 1: Principles and requirements*,  
ECSS-E-40 Part 1B
- [176] **[ECSS-E-40-2B]**, ESA Publications Division, 2005, *Space engineering - Software - Part 2: Document Requirements Definitions*,  
ECSS-E-40 Part 2B
- [177] **[ECSS-M-ST-60C]**, ESA Publications Division, 2008, *Space project management - Cost and schedule management*,  
ECSS-M-ST-60C
- [178] **[ECSS-M-ST-10C]**, ESA Publications Division, 2008, *Space project management - Project planning and implementation*,  
ECSS-M-ST-10C
- [179] Evans, N.W., Belokurov, V., 2005, In: Turon, C., O'Flaherty, K.S., Perryman, M.A.C. (eds.) ESA SP-576: The Three-Dimensional Universe with Gaia, 385–+, ADS Link
- [180] Eyer, L., 1998, Ph.D. Thesis, ADS Link
- [181] Eyer, L., 2002, Acta Astronomica, 52, 241 (arXiv:astro-ph/0206074), ADS Link
- [182] Eyer, L., 2005, In: Turon, C., O'Flaherty, K.S., Perryman, M.A.C. (eds.) ESA SP-576: The Three-Dimensional Universe with Gaia, 513–+, ADS Link
- [183] Eyer, L., 2006, In: Sterken, C., Aerts, C. (eds.) Astronomical Society of the Pacific Conference Series, 15–+, ADS Link
- [184] Eyer, L., 2006, Memorie della Societa Astronomica Italiana, 77, 549  
(arXiv:astro-ph/0511460), ADS Link
- [185] Eyer, L., Blake, C., 2002, In: Aerts, C., Bedding, T.R., Christensen-Dalsgaard, J. (eds.) ASP Conf. Ser. 259: IAU Colloq. 185: Radial and Nonradial Pulsations as Probes of Stellar Physics, 160–+, ADS Link

- [186] Eyer, L., Blake, C., 2005, MNRAS, 358, 30 (arXiv:astro-ph/0406333), doi:10.1111/j.1365-2966.2005.08651.x, ADS Link
- [187] Eyer, L., Cuypers, J., 2000, In: Szabados, L., Kurtz, D. (eds.) ASP Conf. Ser. 203: IAU Colloq. 176: The Impact of Large-Scale Surveys on Pulsating Star Research, 71–72, ADS Link
- [188] Eyer, L., Grenon, M., 1997, In: ESA SP-402: Hipparcos - Venice '97, 467–472, ADS Link
- [189] Eyer, L., Mignard, F., 2005, MNRAS, 361, 1136, doi:10.1111/j.1365-2966.2005.09266.x, ADS Link
- [190] Fabricius, C., Torra, J., *GDAAS Algorithm Preparation Guidelines*, Tech. rep., GDAAS Configuration Control Board, CCB-GDAAS-002
- [191] Fernandez, M.M., 2005, *Gaia TT&C Subsystem Analysis*, Tech. rep., Note prepared at request of Project team
- [192] Fienga, A., Laskar, J., Simon, J.L., Manche, H., Gastineau, M., 2005, In: Turon, C., O’Flaherty, K.S., Perryman, M.A.C. (eds.) ESA SP-576: The Three-Dimensional Universe with Gaia, 293–+, ADS Link
- [193] Fornies-Marquina, J., Letosa, J., García-Gracia, M., Artacho, J., 1997, IEEE transactions on magnetics, 33, 1456
- [194] Fraedrich, R., Schneider, J., Westermann, R., 2009, IEEE Transactions on Visualization and Computer Graphics (Proceedings Visualization / Information Visualization 2009), 15, to appear, doi:xx.xxxx/xxxxxxxx.xxxxxxx
- [195] Freemon, D.M., 2013, ArXiv e-prints (arXiv:1303.7467), ADS Link
- [196] Freemon, D.M., 2014, ArXiv e-prints (arXiv:1410.1939), ADS Link
- [197] Freemon, D.M., Becla, J., Dubois-Felsmann, G.P., et al., 2010, ADASS XX, LSST Corporation, Astronomical Data Analysis Software and Systems
- [198] Freemon, D.M., Lim, K.T., Becla, J., Dubois-Felsman, G.P., Kantor, J., 2012, In: Radziwill, N.M., Chiozzi, G. (eds.) Software and Cyberinfrastructure for Astronomy II, vol. 8451 of Proc. SPIE, 0, doi:10.1117/12.926596, ADS Link
- [199] **[LDM-129]**, Freemon, M., Kantor, J., 2013, *Data Management Infrastructure Design*, LDM-129, URL <https://ls.st/LDM-129>

- [200] **[LDM-143]**, Freemon, M., Pietrowicz, S., 2013, *Site Specific Infrastructure Estimation Explanation*, LDM-143, URL <https://ls.st/LDM-143>
- [201] Furnell, R., 2005, *Gaia Space/Ground Interface Control Document Volume 1: RF Interface*, Tech. rep., ESA/ESOC, GAIA-ESC-ICD-515
- [202] Furnell, R., 2005, *Gaia Space/Ground Interface Control Document Volume 2: Generic Packet Structure*, Tech. rep., ESA/ESOC, GAIA-ESC-ICD-516
- [203] Gai, M., Busonero, D., Gardiol, D., Loreggia, D., 2005, In: Turon, C., O'Flaherty, K.S., Perryman, M.A.C. (eds.) *ESA SP-576: The Three-Dimensional Universe with Gaia*, 433–+, ADS Link
- [204] Gamma, E., Helm, R., Johnson, R., Vlissides, J., 1994, *Design Patterns: Elements of Reusable Object-Oriented Software*, Addison-Wesley Professional Computing Series
- [205] Gardiol, D., Loreggia, D., Mannu, S., et al., 2004, In: Craig, S.C., Cullum, M.J. (eds.) *Modeling and Systems Engineering for Astronomy*. Edited by Craig, Simon C.; Cullum, Martin J. *Proceedings of the SPIE*, Volume 5497, pp. 461-470 (2004), 461–470, doi:10.1117/12.550356, ADS Link
- [206] Gaudet, S., Hill, N., Armstrong, P., et al., 2010, In: *Society of Photo-Optical Instrumentation Engineers (SPIE) Conference Series*, vol. 7740 of *Society of Photo-Optical Instrumentation Engineers (SPIE) Conference Series*, doi:10.1117/12.858026, ADS Link
- [207] Gibson, R., 2011, University of Washington, Space Telescope Science Institute
- [208] Gibson, R.R., Ahmad, Z., Bankert, J., et al., 2011, In: Evans, I.N., Accomazzi, A., Mink, D.J., Rots, A.H. (eds.) *Astronomical Data Analysis Software and Systems XX*, vol. 442 of *Astronomical Society of the Pacific Conference Series*, 329, ADS Link
- [209] Gielesen, W., de Bruijn, D., van den Dool, T., et al., 2012, In: *Society of Photo-Optical Instrumentation Engineers (SPIE) Conference Series*, vol. 8442 of *Society of Photo-Optical Instrumentation Engineers (SPIE) Conference Series*, doi:10.1117/12.926322, ADS Link
- [210] Gill, R., Gracia, G., Lupton, R.H., O'Mullane, W., 2014, In: *Modeling, Systems Engineering, and Project Management for Astronomy VI*, vol. 9150 of *SPIE*, 91501E, doi:10.1117/12.2054745, ADS Link

- [211] Gilmore, G.F., de Boer, K.S., Favata, F., et al., 2000, In: Breckinridge, J.B., Jakobsen, P. (eds.) Proc. SPIE Vol. 4013, p. 453-472, UV, Optical, and IR Space Telescopes and Instruments, James B. Breckinridge; Peter Jakobsen; Eds., vol. 4013 of Presented at the Society of Photo-Optical Instrumentation Engineers (SPIE) Conference, 453–472, ADS Link
- [212] Goldina, T., Roby, W., Wu, X., Ly, L., 2015, In: Taylor, A.R., Rosolowsky, E. (eds.) Astronomical Data Analysis Software and Systems XXIV (ADASS XXIV), vol. 495 of Astronomical Society of the Pacific Conference Series, 137, ADS Link
- [213] Gomez, A.E., Grenier, S., Udry, S., et al., 1997, In: ESA SP-402: Hipparcos - Venice '97, 621–624, ADS Link
- [214] Górski, K.M., Hivon, E., Banday, A.J., et al., 2005, ApJ, 622, 759 (arXiv:astro-ph/0409513), doi:10.1086/427976
- [215] Górski, K.M., Hivon, E., Banday, A.J., et al., 2005, ApJ, 622, 759 (arXiv:astro-ph/0409513), doi:10.1086/427976, ADS Link
- [216] Gosling, J., Joy, B., Steele, G., 2000, *The Java Language Specification*, Addison-Wesley, 2nd edn.
- [217] Graham, M.J., Djorgovski, S.G., Donalek, C., et al., 2012, In: Peck, A.B., Seaman, R.L., Comerón, F. (eds.) Observatory Operations: Strategies, Processes, and Systems IV, vol. 8448 of Proc. SPIE, 0 (arXiv:1206.4035), doi:10.1117/12.926577, ADS Link
- [218] Graham M., R.G., Morris D., 2009, *VOSpace specification*, Tech. rep., IVOA, REC-VOSpace-1.15
- [219] Graham M., R.G., Morris D., 2011, *VOSpace specification*, Tech. rep., IVOA, REC-VOSpace-2.0
- [220] Gray, J., Szalay, A.S., Thakar, A., et al., 2003, Distributed Data and Structures 4: Records of the 4th International Meeting, W. Litwin, G. Levy (eds), Paris France March 2002
- [221] Greenbaum, A., 1997, *Iterative Methods for Solving Linear Systems*, SIAM
- [222] Gregory, P.C., 2010, *Bayesian Logical Data Analysis for the Physical Sciences*, Cambridge University Press, 1 edn.
- [223] Groom, D.E., Eberhard, P.H., Holland, S.E., et al., 2000, In: P. Amico & J. W. Beletic (ed.) Astrophysics and Space Science Library, vol. 252 of Astrophysics and Space Science Library, 201–+, ADS Link

- [224] Grossman, R., Gu, Y., Hong, X., et al., 2004, URL [citeseer.ist.psu.edu/729500.html](http://citeseer.ist.psu.edu/729500.html)
- [225] Grün, E., Zook, H.A., Fechtig, H., Giese, R., 1985, *Icarus*, 62, 244, doi:10.1016/0019-1035(85)90121-6, ADS Link
- [226] Guerrier, A., , *Software Design Document for Wavelength Calibration*, Tech. rep., GAIA-C6-TN-OPM-AG-003-1
- [227] Guerrier, A., , *Software Design Document for Apply Calibration*, Tech. rep., GAIA-C6-SP-OPM-AG-004-1
- [228] Gunn, A.G., Hall, J.C., Lockwood, G.W., Doyle, J.G., 1996, *A&A*, 305, 146, ADS Link
- [229] Hamilton, W.R., 1843, In: *Proceedings of the Royal Irish Academy*, vol. 2, 424–434, <http://www.maths.tcd.ie/pub/HistMath/People/Hamilton/Quatern1/Quatern1.html>
- [230] Hamilton, W.R., 1844, In: *Proceedings of the Royal Irish Academy*, vol. 3, 1–16, <http://www.maths.tcd.ie/pub/HistMath/People/Hamilton/OnQuat/OnQuat.pdf>
- [231] Hamilton, W.R., 1847, In: *Proceedings of the Royal Irish Academy*, vol. 3, 1–16, <http://www.maths.tcd.ie/pub/HistMath/People/Hamilton/Quatern2/Quatern2.html>
- [232] Handy, C., 1993, *Understanding organizations*, Penguin Books, London, England New York, N.Y., USA
- [233] Hankins, T.L., 1980, *Sir William Rowan Hamilton*, The Johns Hopkins University Press
- [234] Harrison, D.L., 2011, *Experimental Astronomy*, 31, 157 (arXiv:1107.0210), doi:10.1007/s10686-011-9240-7, ADS Link
- [235] Harrison P., R.G., 2010, *Universal Worker Service Pattern*, Tech. rep., IVOA, REC-UWS-1.0
- [236] Hassan, A., Fluke, C.J., 2011, ArXiv e-prints (arXiv:1102.5123), ADS Link
- [237] Haywood, M., Robin, A.C., Creze, M., 1997, *A&A*, 320, 428, ADS Link
- [238] Hechler, M., 2004, ESOC, private communication
- [239] Hechler, M., 2006, *GAIA Consolidated Report on Mission Analysis (CRMA)*, Tech. rep., ESA, European Space Operations Centre, GAIA-ESC-RP-0001, Issue 2.0

- [240] Hees, A., Hestroffer, D., Le Poncin-Lafitte, C., David, P., 2015, ArXiv e-prints (arXiv:1509.06868), ADS Link
- [241] Helmi, A., de Zeeuw, P.T., 2000, MNRAS, 319, 657 (arXiv:astro-ph/0007166), ADS Link
- [242] Hoblitt, J., 2015, Puppet vs jenkins: A tale of types and providers, URL <https://puppetlabs.com/presentations/puppet-vs-jenkins-tale-types-and-providers>, Talk presented at PuppetConf 2015, Portland
- [243] Høg, E., 1994, *A new era of global astrometry and photometry from space and ground*, Tech. rep., CUO, Contribution at the G. Colombo Memorial Conference : Ideas for Space Research after the Year 2000.
- [244] Høg, E., Bernacca, P.L., Emiliani, L., 1997, In: Perryman, M., Bernacca, P. (eds.) Proc. of Hipparcos Venice 97, xxvii–xxxv
- [245] Høg, E., Fabricius, C., Makarov, V.V., et al., 2000, A&A, 355, L27, ADS Link
- [246] Hogg, D.W., Lang, D., 2008, In: American Institute of Physics Conference Series, vol. 1082 of American Institute of Physics Conference Series, 331–338, doi:10.1063/1.3059072, ADS Link
- [247] Hogg, D.W., Lang, D., 2011, In: EAS Publications Series, vol. 45 of EAS Publications Series, 351–358 (arXiv:1008.0738), doi:10.1051/eas/1045059, ADS Link
- [248] Holl, B., Lindegren, L., 2012, A&A, 543, A14, doi:10.1051/0004-6361/201218807, ADS Link
- [249] Holl, B., Hobbs, D., Lindegren, L., 2010, In: S. A. Klioner, P. K. Seidelmann, & M. H. Soffel (ed.) IAU Symposium, vol. 261 of IAU Symposium, 320–324, doi:10.1017/S1743921309990573, ADS Link
- [250] Holl, B., Lindegren, L., Hobbs, D., 2012, A&A, 543, A15, doi:10.1051/0004-6361/201218808, ADS Link
- [251] Holland, S.E., Groom, D.E., Palaio, N.P., Stover, R.J., Wei, M., 2003, IEEE transactions on electron devices, 50, 225
- [252] Huckle, H., 2007, *Continuum Normalisation*, Tech. rep., GAIA-C6-SP-MSSL-HEH-001-D

- [253] IAU, 2001, Information Bulletin, 88,  
(errata in IAU Information Bulletin, 89)
- [254] Ivezić, Z., 2016, The impact of photo-z on LSST science requirements, URL  
<https://docs.google.com/viewer?a=v&pid=sites&srcid=ZGVmYXVsdGRvbWVpbXwaXR0cGhvdG96d29ya3Nob3AyMDE2fGd40jMwZDZmNWewYjhhMmY3Zjk>,  
Presented at the LSST Photo-z Workshop, Pittsburgh, April 5, 2016
- [255] **[LPM-17]**, Ivezić, Ž., The LSST Science Collaboration, 2011, *LSST Science Requirements Document*, LPM-17, URL <https://ls.st/LPM-17>
- [256] Ivezić, Ž., Tyson, J., Juri, M., et al., 2007, In: Valsecchi, G.B., Vokrouhlický, D. (eds.) IAU Symposium, vol. 236 of IAU Symposium, 353–362, doi:10.1017/S1743921307003420, ADS Link
- [257] Ivezić, Ž., Axelrod, T., Becker, A.C., et al., 2008, In: Bailer-Jones, C.A.L. (ed.) American Institute of Physics Conference Series, vol. 1082 of American Institute of Physics Conference Series, 359–365 (arXiv:0810.5155), doi:10.1063/1.3059076, ADS Link
- [258] Ivezić, Z., et al., 2011, Parametrization and classification of 20 billion lsst objects: Lessons from sdss, SLAC-PUB-14716, URL  
<http://www.osti.gov/scitech/biblio/1029150/>,  
Republished version of 2008AIPC.1082..359I
- [259] J.A. Zensus, P.N., P.J. Napier, 1995, *Very Long Baseline Interferometry and the VLBA*, Astronomical Society of the Pacific, asp conference series vol. 82 edn.
- [260] Jacobson, I., Booch, G., Rumbaugh, J., 1999, *The Unified Software Development Process*, Addison-Wesley Professional, 1st edn.
- [261] Jagatheesan, A., Kantor, J., 2010, IEEE MSST2010, LSST Corporation, IEEE
- [262] Jagatheesan, A.S., Kantor, J., Plante, R., et al., 2010, In: Radziwill, N.M., Bridger, A. (eds.) Software and Cyberinfrastructure for Astronomy, vol. 7740 of Proc. SPIE, 1, doi:10.1117/12.857812, ADS Link
- [263] Janesick, J.R., 2001, *Scientific charge-coupled devices*
- [264] Jee, M.J., Tyson, J.A., 2011, PASP, 123, 596 (arXiv:1011.1913), doi:10.1086/660137, ADS Link
- [265] Jenness, T., 2016, In: Lorente, N.P.F., Shortridge, K. (eds.) ADASS XXV, vol. TBD of ASP Conf. Ser., TBD, ASP, San Francisco (arXiv:1511.06790)

- [266] Jenness, T., 2016, LSST Data Management Code Overview, URL <http://dx.doi.org/10.5281/zenodo.48434>,  
Presented at LSST/Astropy Summit, March 2016, Seattle
- [267] Jenness, T., 2016, Investigating interoperability of the LSST Data Management software stack with Astropy, URL <http://dx.doi.org/10.5281/zenodo.48434>,  
Talk at the SPIE Astronomical Telescopes and Instrumentation Conference, Edinburgh, UK
- [268] Jenness, T., 2016, In: Python in Astronomy 2016, 27, doi:10.5281/zenodo.48406, ADS Link
- [269] Jenness, T., LSST Data Management Team, 2016, In: American Astronomical Society Meeting Abstracts, vol. 227 of American Astronomical Society Meeting Abstracts, #348.15, doi:10.5281/zenodo.44634, ADS Link
- [270] **[LDM-512]**, Jenness, T., O'Mullane, W., 2017, *Data Management Risk Assessment Process*, LDM-512, URL <https://ls.st/LDM-512>
- [271] **[Report-142]**, Jenness, T., Swinbank, J., Krughoff, S., Dubois-Felsmann, G., Ciardi, D., 2015, *Hot-Wiring the Transient Universe IV*, Report-142, URL <https://ls.st/Report-142>,  
Report on the Hot-Wiring the Transient Universe IV conference held in Santa Barbara in May 2015.
- [272] Jenness, T., Bosch, J., Owen, R., et al., 2016, In: Software and Cyberinfrastructure for Astronomy IV, vol. 9913 of Proc. SPIE, 99130G, doi:10.1117/12.2231313, ADS Link
- [273] Jessen, N.C., Nørgaard-Nielsen, H.U., Stevenson, T., et al., 2004, In: J. Antebi & D. Lemke (ed.) Society of Photo-Optical Instrumentation Engineers (SPIE) Conference Series, vol. 5495 of Presented at the Society of Photo-Optical Instrumentation Engineers (SPIE) Conference, 23–30, doi:10.1117/12.550023, ADS Link
- [274] Jones, L., 2009, Fast Transients to Long Period Variables: Timescales in LSST, URL [http://www.cacr.caltech.edu/hotwired2/program/presentations/jones\\_hotwiring.pdf](http://www.cacr.caltech.edu/hotwired2/program/presentations/jones_hotwiring.pdf)
- [275] **[LSE-180]**, Jones, L., 2013, *Level 2 Photometric Calibration for the LSST Survey*, LSE-180, URL <https://ls.st/LSE-180>
- [276] Jones, L., Brown, M., Ivezić, Z., et al., 2015, In: AAS/Division for Planetary Sciences Meeting Abstracts, vol. 47 of AAS/Division for Planetary Sciences Meeting Abstracts, #312.22, ADS Link



- [277] Jones, R.L., Padmanabhan, N., Ivezić, Z., et al., 2010, In: *Observatory Operations: Strategies, Processes, and Systems III*, vol. 7737 of Proc. SPIE, 77371F, doi:10.1117/12.857743, ADS Link
- [278] Jorden, P.R., Jordan, D., Jerram, P.A., Pratlong, J., Swindells, I., 2014, In: *Society of Photo-Optical Instrumentation Engineers (SPIE) Conference Series*, vol. 9154 of Society of Photo-Optical Instrumentation Engineers (SPIE) Conference Series, 91540M, doi:10.1117/12.2069423, ADS Link
- [279] Jordi, C., Høg, E., Brown, A.G.A., de Bruijne, J., 2006, *Gaia spectrophotometers: optimization study*, Tech. rep., GAIA-CH-TN-UB-CJ-037
- [280] Jordi, C., Høg, E., Brown, A.G.A., et al., 2006, MNRAS, 367, 290 (arXiv:astro-ph/0512038), doi:10.1111/j.1365-2966.2005.09944.x, ADS Link
- [281] Jordi, C., Gebran, M., Carrasco, J.M., et al., 2010, A&A, 523, A48 (arXiv:1008.0815), doi:10.1051/0004-6361/201015441, ADS Link
- [282] Juric, M., 2012, Large synoptic survey telescope: The era of petascale survey astronomy, URL <http://physics.illinois.edu/events/detail.asp?id=23401858&startDate=9/11/2012>, Astrophysics colloquium at University of Illinois, 9/11/2012
- [283] Juric, M., 2013, LSST: Introduction and Data Management Requirements, URL <http://wiki.ivoa.net/internal/IV0A/InterOpMay2013/juric.pdf>, Presented at the IVOA Interoperability Meeting, Heidelberg, Germany
- [284] Juric, M., 2013, Enabling LSST Science: LSST Data Products, URL <https://project.lsst.org/meetings/lsst-europe-2013/sites/default/files/lsstcam13-juric.pdf>, LSST@Europe: The Path to Science, Cambridge
- [285] Juric, M., 2013, LSST: Entering the Era of Petascale Astronomy, URL <http://research.majuric.org/wp/wp-content/uploads/2013/11/LSST-Northwestern-Final.pdf>, Northwestern University CIERA Interdisciplinary Colloquium, 12 November 2013
- [286] Juric, M., 2013, LSST Data Management Entering the Era of Petascale Optical Astronomy, URL <http://www.slideserve.com/daphne/lsst-survey-data-products-mario-juric-lsst-data-management-project-scientist-radio-astronomy>, Radio Astronomy in the LSST Era - Charlottesville, VA - May 6-8, 2013

- [287] Juric, M., 2014, LSST/DM: Building a Next Generation Survey Data Processing System, URL <http://www.slideshare.net/MarioJuric/Isstdm-building-a-next-generation-survey-data-processing-system>, A presentation about LSST Data Management delivered at Harvard-Smithsonian CfA Code Coffee.
- [288] Juric, M., 2014, Creating and Calibrating LSST Data Products, URL <http://www.slideshare.net/MarioJuric/gaiacal2014-talk-creating-and-calibrating-lsst-data-product>
- [289] Juric, M., 2014, Mapping the Milky Way with Large Surveys, URL <http://research.majuric.org/wp/wp-content/uploads/2013/11/MW-JHU-Final.pdf>, Johns Hopkins Astronomy Colloquium, 25 February 2014
- [290] Juric, M., 2014, Large Synoptic Survey Telescope: Entering the Era of Petascale Optical Astronomy, URL <http://research.majuric.org/wp/wp-content/uploads/2013/11/LSST-STScI-20140204-Final.pdf>, Space Telescope Science Institute Colloquium, 4 February 2014
- [291] Juric, M., 2015, Large sky surveys: Entering the era of software-bound astronomy, URL <http://iszd.hr/AstroInfo2015/program.php>
- [292] Juric, M., 2016, LSST Data Products, URL <https://project.lsst.org/meetings/lsst-europe-2016/sites/lsst.org.meetings.lsst-europe-2016/files/02%20-%20juric-LSST-LSSTEurope2-DataProducts-4.pptx>, Presented on 2016-06-20 at the LSST@Europe2 conference held in Serbia
- [293] Juric, M., Lupton, R., 2016, LSST Data Management Brief Status Update, URL <http://dx.doi.org/10.5281/zenodo.47280>, Talk presented at the Winter 2016 LSST DESC Meeting held at SLAC.
- [294] Juric, M., Tyson, T., 2015, Highlights of Astronomy, 16, 675, doi:10.1017/S174392131401285X, ADS Link
- [295] Juric, M., Monet, D., Gizis, J.E., et al., 2012, vol. 219 of AAS Meeting #219, LSST Corporation, American Astronomical Society
- [296] **[LDM-134]**, Juric, M., Allsman, R., Kantor, J., 2013, *Data Management Applications UML Use Case Model*, LDM-134, URL <https://ls.st/LDM-134>

- [297] Juric, M., Kantor, J., Axelrod, T.S., et al., 2013, In: American Astronomical Society Meeting Abstracts #221, vol. 221 of American Astronomical Society Meeting Abstracts, #247.01, ADS Link
- [298] **[LDM-133]**, Juric, M., Lim, K.T., Kantor, J., 2013, *Data Management UML Domain Model*, LDM-133, URL <https://ls.st/LDM-133>
- [299] **[LDM-151]**, Jurić, M., Lupton, R., et al., T.A., 2013, *Data Management Applications Design*, LDM-151, URL <https://ls.st/LDM-151>
- [300] Juric, M., Jones, L., Axelrod, T., Ivezić, Z., 2015, IAU General Assembly, 22, 56348, ADS Link
- [301] Juric, M., et al., 2016, In: Lorente, N.P.F., Shortridge, K. (eds.) ADASS XXV, vol. TBD of ASP Conf. Ser., TBD, ASP, San Francisco (arXiv:1512.07914)
- [302] **[LSE-163]**, Juric, M., et al., 2017, *LSST Data Products Definition Document*, LSE-163, URL <https://ls.st/LSE-163>
- [303] Kane, T.R., Likins, P.W., Levinson, D.A., 1983, *Spacecraft dynamics*, McGraw Hill Book Company, 1 edn.
- [304] Kantor, J., 2008, Lsst data management: Making petascale data accessible
- [305] Kantor, J., 2008, Lsst network requirements
- [306] Kantor, J., 2008, Lsst data management: Making peta-scale data accessible, URL <http://www.slideserve.com/rusty/jeff-kantor-lsst-data-management-systems-manager-lsst-corporation-institute-for-astronomy>, Talk at Institute for Astronomy, University of Hawaii, 19 June 2008
- [307] Kantor, J., 2008, Lsst processing: Challenges and solutions, PUCÓN SYMPOSIUM 2008, Fifth AccessNova Forum: Ubiquitous Networks in Advanced Applications
- [308] Kantor, J., 2008, Lsst overview
- [309] Kantor, J., 2010, In: Radziwill, N.M., Bridger, A. (eds.) Software and Cyberinfrastructure for Astronomy, vol. 7740 of Proc. SPIE, 1, doi:10.1117/12.857253, ADS Link
- [310] Kantor, J., 2014, In: Wozniak, P.R., Graham, M.J., Mahabal, A.A., Seaman, R. (eds.) The Third Hot-wiring the Transient Universe Workshop, 19–26, ADS Link

- [311] Kantor, J., 2015, Computing for ngvla: Lessons from lsst, URL  
<https://science.nrao.edu/science/meetings/2015/ngvla-tech-workshop/program>
- [312] Kantor, J., Axelrod, T., 2005, LSST Data Management Status, URL  
<http://www.slideshare.net/datacenters/sweeney-dm-status-review-20050322ppt>
- [313] Kantor, J., Axelrod, T., 2010, In: Radziwill, N.M., Bridger, A. (eds.) Software and Cyberinfrastructure for Astronomy, vol. 7740 of Proc. SPIE, 1, doi:10.1117/12.857280, ADS Link
- [314] **[LDM-148]**, Kantor, J., Axelrod, T., 2013, *Data Management System Design*, LDM-148, URL <https://ls.st/LDM-148>
- [315] Kantor, J., Axelrod, T., Becla, J., et al., 2007, In: Shaw, R.A., Hill, F., Bell, D.J. (eds.) Astronomical Data Analysis Software and Systems XVI, vol. 376 of Astronomical Society of the Pacific Conference Series, 3–+, ADS Link
- [316] **[LDM-138]**, Kantor, J., Axelrod, T., Lim, K.T., 2013, *Data Management Compute Sizing Model*, LDM-138, URL <https://ls.st/LDM-138>
- [317] **[LDM-240]**, Kantor, J., Juric, M., Lim, K.T., 2016, *Data Management Releases*, LDM-240, URL <https://ls.st/LDM-240>
- [318] Kantor, J., Long, K., Becla, J., et al., 2016, In: Modeling, Systems Engineering, and Project Management for Astronomy VI, vol. 9911 of Proc. SPIE, 99110N, doi:10.1117/12.2233380, ADS Link
- [319] Kantor, J., Long, K., Becla, J., et al., 2016, Agile software development in an earned value world: a survival guide, URL <http://dx.doi.org/10.5281/zenodo.56593>, Talk at the SPIE Astronomical Telescopes and Instrumentation Conference, Edinburgh, UK
- [320] Kantor, J.P., 2006, In: Lewis, H., Bridger, A. (eds.) Advanced Software and Control for Astronomy, vol. 6274 of Proc. SPIE, 0, doi:10.1117/12.671685, ADS Link
- [321] Kantor, J.P., 2012, In: Angeli, G.Z., Dierickx, P. (eds.) Modeling, Systems Engineering, and Project Management for Astronomy V, vol. 8449 of Proc. SPIE, 0, doi:10.1117/12.924887, ADS Link
- [322] Katz, D., Gaia - RVS: DPAC and CU6, CU6 Workshop2, [http://wwwhip.obspm.fr/gaia/cu6/workshop\\_2/CU6\\_w2\\_Katz\\_intro.pdf](http://wwwhip.obspm.fr/gaia/cu6/workshop_2/CU6_w2_Katz_intro.pdf)

- [323] van Klaveren, B., 2016, LSST Data Access and VO: Pathfinding through TAP, ADQL and beyond, URL [http://wiki.ivoa.net/internal/IVOA/InterOpMay2016-DAL/LSST\\_DAX\\_IVOA\\_Interop\\_May-2016.pdf](http://wiki.ivoa.net/internal/IVOA/InterOpMay2016-DAL/LSST_DAX_IVOA_Interop_May-2016.pdf),  
Presentation at the Northern Spring IVOA Meeting, South Africa
- [324] Klioner, S.A., 2001, ArXiv Astrophysics e-prints (arXiv:astro-ph/0107457), ADS Link
- [325] Klioner, S.A., 2003, AJ, 125, 1580, ADS Link
- [326] Klioner, S.A., 2004, Phys. Rev. D, 69, 124001 (arXiv:astro-ph/0311540),  
doi:10.1103/PhysRevD.69.124001, ADS Link
- [327] Klioner, S.A., 2005, In: Turon, C., O'Flaherty, K.S., Perryman, M.A.C. (eds.) The Three-Dimensional Universe with Gaia, vol. 576 of ESA Special Publication, 207–+, ADS Link
- [328] Klioner, S.A., 2008, A&A, 478, 951, doi:10.1051/0004-6361:20077786, ADS Link
- [329] Klioner, S.A., 2008, In: H. Dittus, C. Lammerzahl, & S. G. Turyshev (ed.) Lasers, Clocks and Drag-Free Control: Exploration of Relativistic Gravity in Space, vol. 349 of Astrophysics and Space Science Library, 399, doi:10.1007/978-3-540-34377-6\_19, ADS Link
- [330] Klioner, S.A., Peip, M., 2003, A&A, 410, 1063 (arXiv:astro-ph/0305204),  
doi:10.1051/0004-6361:20031283, ADS Link
- [331] Klioner, S.A., Soffel, M.H., 2000, Phys. Rev. D, 62, 024019 (arXiv:gr-qc/9906123), ADS Link
- [332] Klioner, S.A., Soffel, M.H., 2005, In: Turon, C., O'Flaherty, K.S., Perryman, M.A.C. (eds.) The Three-Dimensional Universe with Gaia, vol. 576 of ESA Special Publication, 305–+, ADS Link
- [333] Klioner, S.A., Zschocke, S., Soffel, M.H., Butkevich, A.G., 2010, ArXiv e-prints (arXiv:1002.5016), ADS Link
- [334] Kobayashi, Y., Gouda, G., Tsujimoto, T., et al., 2006, Exploiting Large Surveys for Galactic Astronomy, 26th meeting of the IAU, Joint Discussion 13, 22-23 August 2006, Prague, Czech Republic, JD13, #32, 13, ADS Link
- [335] Kohley, R., Garé, P., Vétel, C., Marchais, D., Chassat, F., 2012, In: Society of Photo-Optical Instrumentation Engineers (SPIE) Conference Series, vol. 8442 of Society

- of Photo-Optical Instrumentation Engineers (SPIE) Conference Series,  
doi:10.1117/12.926144, ADS Link
- [336] Kopeikin, S., Vlasov, I., 2004, *Phys. Rep.*, 400, 209 (arXiv:gr-qc/0403068),  
doi:10.1016/j.physrep.2004.08.004, ADS Link
- [337] Korn, G.A., Korn, T.M., 1961, *Mathematical handbook for scientists and engineers*,  
McGraw Hill Book Company, 1 edn.
- [338] Kovalevsky, J., 1998, *ARA&A*, 36, 99, doi:10.1146/annurev.astro.36.1.99, ADS Link
- [339] Kovalevsky, J., Lindegren, L., Froeschle, M., et al., 1995, *A&A*, 304, 34, ADS Link
- [340] **[LPM-20]**, Krabbendam, V., Selvy, B., 2015, *Risk & Opportunity Management Plan*,  
LPM-20, URL <https://ls.st/LPM-20>
- [341] **[EISD-EPNS-00003]**, Krall, C., 2004, *IMPLEMENTATION OF THE ESA NETWORK SECURITY  
POLICY*,  
EISD-EPNS-00003
- [342] Kruchten, P., 2003, *The Rational Unified Process: An Introduction*, Addison-Wesley  
Professional, 3rd edn.
- [343] Krughoff, K.S., 2014, Image differencing for lsst, URL  
<http://dx.doi.org/10.5281/zenodo.45300>,  
ZTF-LSST Joint Meeting November 12th 2014
- [344] Krughoff, K.S., 2015, In: The Fourth Hot-wiring the Transient Universe Workshop, Santa  
Barbara, URL [http://lcogt.net/files/media/Krughoff\\_Hotwiring-2015-final.pptx](http://lcogt.net/files/media/Krughoff_Hotwiring-2015-final.pptx),  
doi:<http://dx.doi.org/10.5281/zenodo.45300>
- [345] Kubica, J., Axelrod, T., Barnard, K., et al., 2005, In: American Astronomical Society  
Meeting Abstracts, vol. 37 of Bulletin of the American Astronomical Society, 1207, ADS  
Link
- [346] Laher, R.R., Levine, D., Mannings, V., et al., 2009, In: Bohlender, D.A., Durand, D.,  
Dowler, P. (eds.) *Astronomical Data Analysis Software and Systems XVIII*, vol. 411 of  
*Astronomical Society of the Pacific Conference Series*, 106, ADS Link
- [347] Lallo, M. and Petro, L., *Bidirectional reflectance distribution function for the NGST mirrors*,  
Tech. rep., Space Telescope Science Institute

- [348] Lammers, U., ,  
unpublished results - see also [http://www.rssd.esa.int/\discretionary{-}{-}{-}GAIA/  
\discretionary{-}{-}{-}PoW\\_ground\\_station\\_visibility.html](http://www.rssd.esa.int/\discretionary{-}{-}{-}GAIA/\discretionary{-}{-}{-}PoW_ground_station_visibility.html)
- [349] Lammers, U., ,  
unpublished results
- [350] Lammers, U., Lindegren, L., O'Mullane, W., Hobbs, D., 2009, In: D. A. Bohlender, D. Durand, & P. Dowler (ed.) *Astronomical Data Analysis Software and Systems XVIII*, vol. 411 of *Astronomical Society of the Pacific Conference Series*, 55–+, ADS Link
- [351] Larman, C., Basili, V.R., 2003, *Iterative and Incremental Development: A Brief History*, Tech. rep.,  
<http://www2.umassd.edu/SWPI/xp/articles/r6047.pdf>
- [352] Lasker, B., Lattanzi, M., McLean, B., et al., 2008, *The Astronomical Journal*, 136, doi:10.1088/0004-6256/136/2/735, ADS Link
- [353] Lattanzi, M., Drimmel, R., 2003,  
private communcation
- [354] Lattanzi, M.G., Spagna, A., Sozzetti, A., Casertano, S., 2000, *MNRAS*, 317, 211 (arXiv:astro-ph/0005024), ADS Link
- [355] Lattanzi, M.G., Casertano, S., Jancart, S., et al., 2005, In: Turon, C., O'Flaherty, K.S., Perryman, M.A.C. (eds.) *ESA SP-576: The Three-Dimensional Universe with Gaia*, 251–+, ADS Link
- [356] Lazio, J.W., Kimball, A., Barger, A.J., et al., 2014, *PASP*, 126, 196 (arXiv:1401.0716), doi:10.1086/675262, ADS Link
- [357] van Leeuwen, F., 1997, *The Hipparcos Mission*, Springer, *Space Science Reviews*, Vol.81 edn.
- [358] van Leeuwen, F., 2007, *Hipparcos, the New Reduction of the Raw Data*, Springer, *Astrophysics and Space Science Library*. Vol. 350 edn.
- [359] Lejeune, T., Cuisinier, F., Buser, R., 1998, *A&AS*, 130, 65 (arXiv:astro-ph/9710350), ADS Link
- [360] Lenhardt, H., 2003, *GIS implementation in GDAAS2: Detailed Geometrical Calibration*, Tech. rep., ARI, GAIA-ARI-HL-001

- [361] **[SATSCMP]**, Leon, I., 2009, *SCIENCE ARCHIVE - SOFTWARE CONFIGURATION MANAGEMENT PLAN (SCMP)*,  
SAT\_GEN\_PL\_2.0\_01\_SCMP\_05112009, URL [http://www.rssd.esa.int/l1ink/livelink/fetch/-415780/495310/1051419/Sw\\_Conf\\_Mng\\_Plan\\_v2-0.pdf?nodeid=2942288&vernum=-2](http://www.rssd.esa.int/l1ink/livelink/fetch/-415780/495310/1051419/Sw_Conf_Mng_Plan_v2-0.pdf?nodeid=2942288&vernum=-2)
- [362] Levine, D.A., Mannings, V., Cutri, R., et al., 2007, In: American Astronomical Society Meeting Abstracts, vol. 39 of Bulletin of the American Astronomical Society, #137.24, ADS Link
- [363] Lim, K.T., 2007, Preparing for scores of petabytes, IEEE Mass Storage Symposium, San Diego, CA, September 26, 2007
- [364] Lim, K.T., 2008, Lsst and scidb, Stanford HPC Conference, Stanford, CA, USA, August 28, 2008
- [365] Lim, K.T., 2008, Cyberinfrastructure lessons from Lsst data management, iPlant Workshop (remote presentation), December 16, 2008
- [366] Lim, K.T., 2008, The Lsst data management system, Talk at Keck Observatory, December 2, 2008
- [367] Lim, K.T., 2008, Astronomy, petabytes, and mysql, URL <http://conferences.oreilly.com/mysql2008/public/schedule/detail/849>, MySQL Conference, Santa Clara, CA, April 16, 2008
- [368] Lim, K.T., 2011, Lsst applications and middleware, Talk at Fermilab, May 12, 2011
- [369] Lim, K.T., 2012, The Lsst database: What to expect, AAS Splinter Meeting, Austin TX, January 8, 2012
- [370] Lim, K.T., 2012, Xldb and the large synoptic survey telescope, URL <http://idke.ruc.edu.cn/xldb/www.xldb-asia.org/slides/XLDB%20Asia%20-%20LSST.pdf>, XLDB Asia, Beijing, China, June 22-23 2012
- [371] **[LDM-230]**, Lim, K.T., 2013, *Automated Operation of the LSST Data Management System, LDM-230*, URL <https://ls.st/LDM-230>
- [372] Lim, K.T., 2014, A quick tour of the Lsst software stack, URL <https://indico.fnal.gov/contributionDisplay.py?contribId=52&confId=7946>, Talk at DES-LSST Workshop, Fermilab, March 25, 2014



- [373] Lim, K.T., 2014, The designs for lsst's extremely large databases, URL <http://xldb-rio2014.linea.gov.br/abstract/#ktlim>, XLDB South America 2014, Rio de Janeiro, Brazil, June 4, 2014
- [374] Lim, K.T., 2015, Astroparticle physics: An lsst perspective, URL [http://indico.cern.ch/event/357737/session/3/contribution/16/attachments/712039/977483/HEPSWF\\_Meeting.pdf](http://indico.cern.ch/event/357737/session/3/contribution/16/attachments/712039/977483/HEPSWF_Meeting.pdf), HEP Software Foundation Workshop, SLAC National Accelerator Lab, January 20, 2015
- [375] **[LDM-146]**, Lim, K.T., Allsman, R., Kantor, J., 2013, *Data Management Middleware UML Use Case and Activity Model*, LDM-146, URL <https://ls.st/LDM-146>
- [376] **[LDM-152]**, Lim, K.T., Plante, R., Dubois-Felsmann, G., 2013, *Data Management Middleware Design*, LDM-152, URL <https://ls.st/LDM-152>
- [377] **[LDM-140]**, Lim, K.T., Smith, C., Axelrod, T., Dubois-Felsmann, G., Freemon, M., 2013, *Data Management Compute Sizing Explanation*, LDM-140, URL <https://ls.st/LDM-140>
- [378] Lindegren, L., 1976, *A three-step procedure for deriving positions, proper motions, and parallaxes of stars observed by scanning great circles*, Tech. rep., Lund Observatory, Lund Observatory Technical note
- [379] Lindegren, L., 1978, In: Prochazka, F.V., Tucker, R.H. (eds.) IAU Colloq. 48: Modern Astrometry, 197–217, ADS Link
- [380] Lindegren, L., 1983, *Pseudosolution and pseudocovariances of least-squares problems with known null space*, Tech. rep., Lund Observatory, NDAC/LO/018, Hipparcos NDAC
- [381] Lindegren, L., 1995, A&A, 304, 61, ADS Link
- [382] Lindegren, L., 2005, In: Turon, C., O'Flaherty, K.S., Perryman, M.A.C. (eds.) The Three-Dimensional Universe with Gaia, vol. 576 of ESA Special Publication, 29–+, ADS Link
- [383] Lindegren, L., 2009, Proceedings of the International Astronomical Union, 5, 296, doi:10.1017/S1743921309990548
- [384] Lindegren, L., 2010, ISSI Scientific Reports Series, 9, 279, ADS Link
- [385] Lindegren, L., et al, M.P., 1993, *GAIA : Global Astrometric Interferometer for Astrophysics*, Tech. rep., Lund, URL [http://www.astro.lu.se/%7E1ennart/Astrometry/gaia\\_proposal.PDF](http://www.astro.lu.se/%7E1ennart/Astrometry/gaia_proposal.PDF)

- [386] Lindegren, L., Bastian, U., 2011, In: EAS Publications Series, vol. 45 of EAS Publications Series, 109–114, doi:10.1051/eas/1045018, ADS Link
- [387] Lindegren, L., Perryman, M.A.C., 1994, *A Small Interferometer in Space for Global Astrometry: the Gaia Concept*, Tech. rep., Lund Observatory, IAU Symp. No 166, Astronomical and Astrophysical Objectives of sub-milliarcsecond Optical Astronomy, The Hague, 15–19 August 1994
- [388] Lindegren, L., Perryman, M.A.C., 1994, *GAIA: Global Astrometric Interferometer for Astrophysics*, Tech. rep., Lund Observatory, Supplementary Information Submitted to the Horizon2000+ Survey Committee
- [389] Lindegren, L., Perryman, M.A.C., Bastian, U., et al., 1993, *GAIA: Global Astrometric Interferometer for Astrophysics*, Tech. rep., Lund Observatory, Response to Call for Mission Concepts for Horizon 2000 Follow UP: Proposal for an astrometric interferometer as an ESA Cornerstone Mission
- [390] Lindegren, L., Perryman, M.A.C., Bastian, U., et al., 1994, *GAIA: Global Astrometric Interferometer for Astrophysics*, Tech. rep., Lund Observatory, Proc. of Astronomical Telescopes and Instrumentation for the 21st Century. Technical Conference 2200, SPIE Symposium in Kona, 13–18 March 1994
- [391] Lindegren, L., Lammers, U., Hobbs, D., et al., 2012, A&A, 538, A78 (arXiv:1112.4139), doi:10.1051/0004-6361/201117905, ADS Link
- [392] Lindegren, L., Lammers, U., Hobbs, D., et al., 2012, Astronomy and Astrophysics, 538, A78, DOI: <http://dx.doi.org/10.1051/0004-6361/201117905>
- [393] ter Linden, M., de Wolf, H., Grim, R., 2005, In: 2005 International Conference on Parallel Processing Workshops (ICPPW'05), vol. icppw, 5–10, IEEE Computer Society, doi:10.1109/ICPPW.2005.37
- [394] Lock, D., 2000, *Project Phasing and Planning*, Gower, 7 edn.
- [395] **[LPM-98]**, Long, K.E., 2016, *LSST Project Controls System Description*, LPM-98, URL <https://ls.st/LPM-98>
- [396] López, P.P., Luri, X., Serraller, I., 2003, *Java Code Conventions*, Tech. rep., GMV/UB, GMV-GDAAS2-SCG-004

- [397] Lotz, P.J., Dubois-Felsmann, G.P., Lim, K.T., et al., 2016, In: Software and Cyberinfrastructure for Astronomy IV, vol. 9913 of Proc. SPIE, 991309, doi:10.1117/12.2231796, ADS Link
- [398] LSST Science Collaboration, 2009, ArXiv e-prints (arXiv:0912.0201), ADS Link
- [399] **[Document-11624]**, LSST Science Council, 2011, *Optimization of LSST Deployment Parameters*, Document-11624, URL <https://ls.st/Document-11624>
- [400] Luri, X., Palmer, M., Arenou, F., et al., 2014, A&A, 566, A119 (arXiv:1404.5861), doi:10.1051/0004-6361/201423636, ADS Link
- [401] Makarov, V.V., 1998, A&A, 340, 309, ADS Link
- [402] McDowell, J., 2004, Toward an International Virtual Observatory: Proceedings of the ESO/ESA/NASA/NSF Conference Held at Garching, Germany, 10-14 June 2002, ESO ASTROPHYSICS SYMPOSIA. ISBN 3-540-21001-6
- [403] **[LPM-51]**, McKercher, R., 2013, *Document Management Plan*, LPM-51, URL <https://ls.st/LPM-51>
- [404] **[LPM-43]**, McKercher, R., 2016, *WBS Structure*, LPM-43, URL <https://ls.st/LPM-43>
- [405] **[LPM-44]**, McKercher, R., 2016, *WBS Dictionary*, LPM-44, URL <https://ls.st/LPM-44>
- [406] Michalik, D., Lindegren, L., Hobbs, D., Lammers, U., Yamada, Y., 2012, In: Ballester, P., Egret, D., Lorente, N.P.F. (eds.) *Astronomical Data Analysis Software and Systems XXI*, vol. 461 of *Astronomical Society of the Pacific Conference Series*, 549 (arXiv:1201.2849), ADS Link
- [407] Michalik, D., Lindegren, L., Hobbs, D., Lammers, U., Yamada, Y., 2013, In: de Grijs, R. (ed.) *IAU Symposium*, vol. 289 of *IAU Symposium*, 414–417, doi:10.1017/S1743921312021849, ADS Link
- [408] Michalik, D., Lindegren, L., Hobbs, D., Lammers, U., 2014, A&A, 571, A85 (arXiv:1407.4025), doi:10.1051/0004-6361/201424606, ADS Link
- [409] Michalik, D., Lindegren, L., Hobbs, D., 2015, A&A, 574, A115 (arXiv:1412.8770), doi:10.1051/0004-6361/201425310, ADS Link
- [410] Michalik, D., Lindegren, L., Hobbs, D., Butkevich, A.G., 2015, A&A, 583, A68 (arXiv:1507.02963), doi:10.1051/0004-6361/201526936, ADS Link

- [411] Microsystems, S., 1999, *Code Conventions for the Java Programming Language*, Tech. rep., Sun,  
<http://java.sun.com/docs/codeconv>
- [412] Microsystems, S., 1999, *Java Look and Feel Design Guidelines*, Tech. rep., Sun,  
<http://java.sun.com/products/jlfdg/index.htm>
- [413] Microsystems, S., 2000, *How to write Doc Comments for JavaDoc*, Tech. rep., Sun,  
<http://java.sun.com/products/jdk/javadoc/writingdoccomments/index.html>
- [414] Mignard, F., 2000, *A&A*, 354, 522, [ADS Link](#)
- [415] Mignard, F., 2001, *A practical scanning law for GAIA simulations*, Tech. rep., CERGA,  
GAIA-FM-010
- [416] Mignard, F., 2002, In: Bienayme, O., Turon, C. (eds.) *EAS Publications Series*, vol. 2 of  
*Engineering and Science*, 107–121, [ADS Link](#)
- [417] Mignard, F., 2002, *Considerations on the orbit of Gaia for simulations*, Tech. rep.,  
Observatoire de la Côte D'Azur/CERGA,  
GAIA-FM-011
- [418] Mignard, F., 2004,  
Observatoire de la Côte D'Azur/CERGA, private communication
- [419] Mignard, F., 2005, In: Turon, C., O'Flaherty, K.S., Perryman, M.A.C. (eds.) *ESA SP-576:  
The Three-Dimensional Universe with Gaia*, 5–+, [ADS Link](#)
- [420] Mignard, F., Klioner, S., 2012, *A&A*, 547, A59 (arXiv:1207.0025),  
[doi:10.1051/0004-6361/201219927](https://doi.org/10.1051/0004-6361/201219927), [ADS Link](#)
- [421] Milani, A., Gronchi, D., G. and Farnocchia, Ivezić, Ž., et al., 2008, *Icarus*, 195, 474,  
[doi:10.1016/j.icarus.2007.11.033](https://doi.org/10.1016/j.icarus.2007.11.033), [ADS Link](#)
- [422] Miller, W.W., III, Sontag, C., Rose, J.F., 2003, In: Payne, H.E., Jedrzejewski, R.I., Hook, R.N.  
(eds.) *Astronomical Data Analysis Software and Systems XII*, vol. 295 of *Astronomical  
Society of the Pacific Conference Series*, 261–+, [ADS Link](#)
- [423] Moniez, M., 2003, *A&A*, 412, 105 (arXiv:astro-ph/0302460),  
[doi:10.1051/0004-6361:20031478](https://doi.org/10.1051/0004-6361:20031478), [ADS Link](#)
- [424] Moore, G.E., 1965, vol. 38

- [425] Mora, A., Vosteen, A., 2012, In: Society of Photo-Optical Instrumentation Engineers (SPIE) Conference Series, vol. 8442 of Society of Photo-Optical Instrumentation Engineers (SPIE) Conference Series (arXiv:1207.2087), doi:10.1117/12.926313, ADS Link
- [426] Mora, A., Biermann, M., Brown, A.G.A., et al., 2014, In: Society of Photo-Optical Instrumentation Engineers (SPIE) Conference Series, vol. 9143 of Society of Photo-Optical Instrumentation Engineers (SPIE) Conference Series, 0 (arXiv:1407.3729), doi:10.1117/12.2054602, ADS Link
- [427] Moreno, F., Molina, A., Ortiz, J.L., 1997, A&A, 327, 1253, ADS Link
- [428] Munari, U., 2000, In: Molecules in Space and in the Laboratory, Proceedings of a workshop held 2-5 June 1999 in Carloforte, Cagliari., vol. 67, 179–, I. Porceddu, and S. Aiello. Bologna, Italy: Italian Physical Society, Conference Proceedings
- [429] Munari, U., Tomasella, L., 1999, A&AS, 137, 521, ADS Link
- [430] **[LDM-156]**, Myers, J., Jones, L., Axelrod, T., 2013, *Moving Object Pipeline System Design*, LDM-156, URL <https://ls.st/LDM-156>
- [431] Myers, J.A., Tatineni, M., Sinkovits, R.S., 2011, In: Proceedings of the 2011 TeraGrid Conference: Extreme Digital Discovery, TG '11, 8:1–8:4, ACM, New York, NY, USA, URL <http://doi.acm.org/10.1145/2016741.2016750>, doi:10.1145/2016741.2016750
- [432] Narayan, G., Snodgrass, R., Keceioglu, J., et al., 2015, IAU General Assembly, 22, 58269, ADS Link
- [433] NASA/Science Office of Standards and Technology, 1995, *Definition of the Flexible Image Transport System (FITS)*, Tech. Rep. NOST 100-1.1, NASA/NOST
- [434] Nidever, D.L., 2016, Evaluating the LSST Science Pipelines with Precursor Datasets, URL <http://dx.doi.org/10.5281/zenodo.44673>, NSF Pavilion talk at the 227th American Astronomical Society Meeting
- [435] Nidever, D.L., 2016, Mapping the LMC outskirts with DECam, URL <http://dx.doi.org/10.5281/zenodo.47537>, Presented at Globular Clusters and Galaxy Halos, Leiden
- [436] Nieto-Santisteban, M.A., Szalay, A.S., Thakar, A.R., et al., 2005, ArXiv Computer Science e-prints (arXiv:cs/0502018), ADS Link
- [437] **[LCA-227]**, Nordby, M., Kurita, N., O'Neill, F., Marsh, D., 2014, *LSST Camera Quality Implementation Plan*, LCA-227, URL <https://ls.st/LCA-227>

- [438] Nordstroem, B., Latham, D.W., Morse, J.A., et al., 1994, *A&A*, 287, 338, [ADS Link](#)
- [439] O'Mullane, W., Lindegren, L., 1999, *Baltic Astronomy*, 8, 57, [ADS Link](#)
- [440] O'Mullane, W., Lindegren, L., 1999, *An Object-Oriented Framework for GAIA Data Processing*, Tech. rep., ESA
- [441] O'Mullane, W., Luri, X., 2001, In: Brunner, R.J., Djorgovski, S.G., Szalay, A.S. (eds.) *Virtual Observatories of the Future*, vol. 225 of *Astronomical Society of the Pacific Conference Series*, 201, [ADS Link](#)
- [442] O'Mullane, W., Hazell, A., Bennett, K., Bartelmann, M., Vuerli, C., 2000, In: Manset, N., Veillet, C., Crabtree, D. (eds.) *Astronomical Data Analysis Software and Systems IX*, vol. 216 of *Astronomical Society of the Pacific Conference Series*, 419–+, [ADS Link](#)
- [443] O'Mullane, W., Banday, A.J., Górski, K.M., Kunszt, P., Szalay, A.S., 2001, In: Banday, A.J., Zaroubi, S., Bartelmann, M. (eds.) *Mining the Sky*, 638–+, doi:10.1007/10849171\_84, [ADS Link](#)
- [444] O'Mullane, W., Li, N., Nieto-Santisteban, M., et al., 2005, In: *International Conference on Web Services*,  
Also MS technote <http://arxiv.org/pdf/cs.DC/0502072>, [ADS Link](#)
- [445] O'Mullane, W., Lammers, U., Bailer-Jones, C., et al., 2006, *ArXiv Astrophysics e-prints* (arXiv:astro-ph/0611885), [ADS Link](#)
- [446] O'Mullane, W., Hoar, J., Lammers, U., 2007, *ArXiv e-prints*, 712 (arXiv:0712.0249), [ADS Link](#)
- [447] O'Mullane, W., Hernández, J., Hoar, J., Lammers, U., 2009, In: D. A. Bohlender, D. Durand, & P. Dowler (ed.) *Astronomical Data Analysis Software and Systems XVIII*, vol. 411 of *Astronomical Society of the Pacific Conference Series*, 470, [ADS Link](#)
- [448] O'Mullane, W., Lammers, U., Hernandez, J., 2011, In: I. N. Evans, A. Accomazzi, D. J. Mink, & A. H. Rots (ed.) *Astronomical Data Analysis Software and Systems XX*, vol. 442 of *Astronomical Society of the Pacific Conference Series*, 351, [ADS Link](#)
- [449] O'Mullane, W., Lammers, U., Lindegren, L., Hernandez, J., Hobbs, D., 2011, *Experimental Astronomy*, 31, 215 (arXiv:1108.2206), doi:10.1007/s10686-011-9248-z, [ADS Link](#)
- [450] O'Mullane, W., Luri, X., Parsons, P., et al., 2011, *Experimental Astronomy*, 31, 243 (arXiv:1108.0355), doi:10.1007/s10686-011-9241-6, [ADS Link](#)

- [451] O'Mullane, W., Luri, X., Parsons, P., et al., 2011, ArXiv e-prints (arXiv:1108.0355), ADS Link
- [452] **[LDM-503]**, O'Mullane, W., Jurić, M., Economou, F., 2017, *Data Management Test, Verification and Validation Plan*, LDM-503, URL <https://ls.st/LDM-503>
- [453] O'Mullane W., N.V., 2010, *Charting the Galaxy with the Gaia Satellite and InterSystems Caché*, Tech. rep., InterSystems and DPAC, [http://www.intersystems.com/cache/whitepapers/charting\\_the\\_galaxy.html](http://www.intersystems.com/cache/whitepapers/charting_the_galaxy.html)
- [454] Oracle, 2005, *Data Compression in 10g*, Tech. rep., Oracle Corporation, [http://www.oracle.com/technology/products/bi/db/10g/pdf/twp\\_data\\_compression\\_10gr2\\_0505.pdf](http://www.oracle.com/technology/products/bi/db/10g/pdf/twp_data_compression_10gr2_0505.pdf)
- [455] Oracle, 2007, *Data Compression in 11g*, Tech. rep., Oracle Corporation, [http://download.oracle.com/docs/cd/B28359\\_01/server.111/b28318/schema.htm#CNCPT1132](http://download.oracle.com/docs/cd/B28359_01/server.111/b28318/schema.htm#CNCPT1132)
- [456] Ortiz I., D.P., Lusted J., 2008, *Astronomical Data Query Language*, Tech. rep., IVOA, REC-ADQL-2.0
- [457] **[SATMP]**, Osuna, P., 2011, *Science Archives and VO Team (SAT) Management Plan*, SAT\_GEN\_PL\_3.0\_06\_MP\_30\_May\_2011, URL [http://www.rssd.esa.int/l1ink/liveLink/fetch/-415780/2741092/SAT\\_GEN\\_PL\\_3.0\\_06\\_MP\\_30May2011.pdf?nodeid=3120171&vernum=-2](http://www.rssd.esa.int/l1ink/liveLink/fetch/-415780/2741092/SAT_GEN_PL_3.0_06_MP_30May2011.pdf?nodeid=3120171&vernum=-2)
- [458] Otto, S., Politzer, H.D., Preskill, J., Wise, M.B., 1986, ApJ, 304, 62, doi:10.1086/164144, ADS Link
- [459] Owen, R., 2016, In: Python in Astronomy 2016, 28, doi:10.5281/zenodo.48410, ADS Link
- [460] Parejko, J., Jenness, T., Owen, R., 2016, In: Python in Astronomy 2016, 17, doi:10.5281/zenodo.48414, ADS Link
- [461] Perryman, A., 2010, *The Making of History's Greatest Star Map*, Astronomers' universe, Springer, URL <http://books.google.es/books?id=P-5pZ8GNuPIC>
- [462] Perryman, M., 2009, *Astronomical Applications of Astrometry: Ten Years of Exploitation of the Hipparcos Satellite Data*, Cambridge University Press
- [463] Perryman, M., de Bruijne, J., Lammers, U., 2008, Experimental Astronomy, 22, 143, doi:10.1007/s10686-008-9116-7, ADS Link

- [464] Perryman, M.A.C., ESA (eds.), 1997, *The HIPPARCOS and TYCHO catalogues. Astrometric and photometric star catalogues derived from the ESA HIPPARCOS Space Astrometry Mission*, vol. 1200 of ESA Special Publication, ADS Link
- [465] Perryman, M.A.C., de Boer, K.S., Gilmore, G., et al., 2001, *A&A*, 369, 339 (arXiv:astro-ph/0101235), doi:10.1051/0004-6361:20010085, ADS Link
- [466] Pickles, A.J., 1998, *PASP*, 110, 863, doi:10.1086/316197, ADS Link
- [467] Pierfederici, F., 2009, LSST-PanSTARRS Solar System Events, URL <http://www.cacr.caltech.edu/hotwired2/program/presentations/pierfederici.pdf>
- [468] Plante, R., Greene, G., Hanisch, R., et al., 2004, In: F. Ochsenbein, M. G. Allen, & D. Egret (ed.) *Astronomical Data Analysis Software and Systems (ADASS) XIII*, vol. 314 of *Astronomical Society of the Pacific Conference Series*, 585, ADS Link
- [469] Pourbaix, D., 2002, *A&A*, 385, 686 (arXiv:astro-ph/0201132), doi:10.1051/0004-6361:20020149, ADS Link
- [470] Press, W.H., Teukolsky, S.A., Vetterling, W.T., Flannery, B.P., 2002, *Numerical Recipes in C*, Cambridge University Press, 2 edn.
- [471] Prod'homme, T., Brown, A.G.A., Lindegren, L., Short, A.D.T., Brown, S.W., 2011, *MNRAS*, 414, 2215 (arXiv:1103.3630), doi:10.1111/j.1365-2966.2011.18537.x, ADS Link
- [472] Protopapas, P., Giammarco, J.M., Faccioli, L., et al., 2006, *MNRAS*, 369, 677 (arXiv:astro-ph/0505495), doi:10.1111/j.1365-2966.2006.10327.x, ADS Link
- [473] Prusti, T., 2014, In: *EAS Publications Series*, vol. 67 of *EAS Publications Series*, 15–21, doi:10.1051/eas/1567003, ADS Link
- [474] **[Document-8590]**, Rasmussen, A., 2015, *Sensor Modeling for the LSST Camera Focal Plane: Current Status of SLAC Originated Code*, Document-8590, URL <https://ls.st/Document-8590>
- [475] Re Fiorentin, P., Bailer-Jones, C.A.L., Lee, Y.S., et al., 2007, *Astronomy and Astrophysics*, 467, 1373 (arXiv:astro-ph/0703309), doi:10.1051/0004-6361:20077334, ADS Link
- [476] Recio-Blanco, A., Bijaoui, A., de Laverny, P., 2006, *MNRAS*, 370, 141 (arXiv:astro-ph/0604385), doi:10.1111/j.1365-2966.2006.10455.x, ADS Link
- [477] Richards, G.T., Nichol, R.C., Gray, A.G., et al., 2004, *ApJS*, 155, 257 (arXiv:astro-ph/0408505), doi:10.1086/425356, ADS Link



- [478] Rickman, H., 2001, Transactions of the International Astronomical Union Proceedings of the Twenty-Fourth General Assembly. Edited by Hans Rickman. ISBN: 1-58381-087-0. San Francisco: Astronomical Society of the Pacific, 2001., 24, ADS Link
- [479] Risquez, D., van Leeuwen, F., Brown, A.G.A., 2012, Experimental Astronomy, 34, 669, doi:10.1007/s10686-012-9310-5, ADS Link
- [480] Rixon G., G.M., 2008, *Single-Sign-On Profile: Authentication Mechanisms*, Tech. rep., IVOA, REC-SSO-1.01
- [481] Robin, A.C., Reylé, C., Derrière, S., Picaud, S., 2003, A&A, 409, 523 (arXiv:astro-ph/0401052), doi:10.1051/0004-6361:200311117, ADS Link
- [482] Robin, A.C., Luri, X., Reylé, C., et al., 2012, A&A, 543, A100 (arXiv:1202.0132), doi:10.1051/0004-6361/201118646, ADS Link
- [483] Robin, A.C., Luri, X., Reylé, C., et al., 2012, ArXiv e-prints (arXiv:1202.0132), ADS Link
- [484] Roby, W., Wu, X., Ly, L., Goldina, T., 2015, In: Taylor, A.R., Rosolowsky, E. (eds.) *Astronomical Data Analysis Software and Systems XXIV (ADASS XXIV)*, vol. 495 of *Astronomical Society of the Pacific Conference Series*, 417, ADS Link
- [485] Roby, W., Wu, X., Goldina, T., et al., 2016, In: *Software and Cyberinfrastructure for Astronomy IV*, vol. 9913 of *Proc. SPIE*, 99130Y, doi:10.1117/12.2233042, ADS Link
- [486] Roby, W.W., 2016, *Firefly: embracing future web technologies*, URL <http://dx.doi.org/10.5281/zenodo.>,  
Talk at the SPIE Astronomical Telescopes and Instrumentation Conference, Edinburgh, UK
- [487] Rose, J., Akella, R., Binengar, S., et al., 1995, In: Shaw, R.A., Payne, H.E., Hayes, J.J.E. (eds.) *Astronomical Data Analysis Software and Systems IV*, vol. 77 of *Astronomical Society of the Pacific Conference Series*, 429–+, ADS Link
- [488] Röser, S., Schilbach, E., Schwan, H., et al., 2008, A&A, 488, 401 (arXiv:0806.1009), doi:10.1051/0004-6361:200809775, ADS Link
- [489] Royce, W., 1970, In: *Proceedings of IEEE WESCON*, 1–9, <http://www.cs.umd.edu/class/spring2003/cmsc838p/Process/waterfall.pdf>
- [490] Saha, A., Wang, Z., Matheson, T., et al., 2016, In: *Observatory Operations: Strategies, Processes, and Systems VI*, vol. 9910 of *Proc. SPIE*, 99100F (arXiv:1611.05914), doi:10.1117/12.2232095, ADS Link

- [491] Sahlmann, J., 2012, *Observing exoplanet populations with high-precision astrometry*, Ph.D. thesis, Observatoire de Genève, Université de Genève  
<EMAIL>Johannes.Sahlmann@unige.ch</EMAIL>
- [492] Sarro, L.M., Eyer, L., O'Mullane, W., De Ridder, J., 2012, *Astrostatistics and Data Mining*
- [493] Schmitz, M., Baker, K., Chan, B., et al., 2011, In: Bulletin of the American Astronomical Society, vol. 43 of Bulletin of the American Astronomical Society, ADS Link
- [494] Schneider, J., 2005, In: Turon, C., O'Flaherty, K.S., Perryman, M.A.C. (eds.) ESA SP-576: The Three-Dimensional Universe with Gaia, 263–266
- [495] Scott, D., Pierfederici, F., Swaters, R., Thomas, B., Valdes, F., 2007, In: Shaw, R.A., Hill, F., Bell, D.J. (eds.) Astronomical Data Analysis Software and Systems XVI, vol. 376 of Astronomical Society of the Pacific Conference Series, 265–+, ADS Link
- [496] Seabroke, G.M., Holland, A.D., Burt, D., Robbins, M.S., 2010, Proc. SPIE, 7742, 774
- [497] Seabroke, G.M., Prod'homme, T., Murray, N.J., et al., 2013, MNRAS, 430, 3155 (arXiv:1302.1873), doi:10.1093/mnras/stt121, ADS Link
- [498] Selvy, B.M., Claver, C., Willman, B., et al., 2016, In: Modeling, Systems Engineering, and Project Management for Astronomy VI, vol. 9911 of Proc. SPIE, 99110D, doi:10.1117/12.2233904, ADS Link
- [499] **[Document-10762]**, Shaw, R., Strauss, M., 2011, *LSST Data Challenge Handbook Version 1.1*, Document-10762, URL <https://ls.st/Document-10762>
- [500] Shaw, R., Axelrod, T., Becker, A.C., et al., 2012, In: American Astronomical Society Meeting Abstracts, vol. 219 of American Astronomical Society Meeting Abstracts, #156.03, ADS Link
- [501] **[Document-15286]**, Shaw, R.A., 2012, *LSST Data Challenge Handbook: Summer 2012 Data Release*, Document-15286, URL <https://ls.st/Document-15286>
- [502] **[Document-15299]**, Shaw, R.A., 2013, *LSST Data Challenge Handbook: Winter 2013 Early Data Release*, Document-15299, URL <https://ls.st/Document-15299>
- [503] Shaw, R.A., Levine, D., Axelrod, T., Laher, R.R., Mannings, V.G., 2010, In: Radziwill, N.M., Bridger, A. (eds.) Software and Cyberinfrastructure for Astronomy, vol. 7740 of Proc. SPIE, 0, doi:10.1117/12.857293, ADS Link

- [504] **[LDM-226]**, Shaw, R.A., Juric, M., Becker, A., et al., 2013, *LSST Data Challenge Report: Summer 2012/early-Winter 2013*, LDM-226, URL <https://ls.st/LDM-226>
- [505] Shuster, M.D., 1993, *Journal of the astronomical sciences*, 41, n.4, 439
- [506] Sick, J., 2016, LSST DM Community Resources, URL <http://dx.doi.org/10.5281/zenodo.44643>, NSF Pavilion Talk given at AAS 227.
- [507] **[LDM-493]**, Sick, J., 2016, *Data Management Documentation Architecture*, LDM-493, URL <https://ls.st/LDM-493>
- [508] Simon, J.L., 1983, *A&A*, 120, 197, ADS Link
- [509] Sivia, D., 1996, *Data Analysis. A Bayesian Tutorial*, OUP, 1 edn.
- [510] Skrutskie, M.F., Cutri, R.M., Stiening, R., et al., 2006, *The Astronomical Journal*, 131, doi:10.1086/498708, ADS Link
- [511] Smith, R.C., Seaman, R., Kantor, J., Axelrod, T., 2010, In: Silva, D.R., Peck, A.B., Soifer, B.T. (eds.) *Observatory Operations: Strategies, Processes, and Systems III*, vol. 7737 of *Proc. SPIE*, 0, doi:10.1117/12.858322, ADS Link
- [512] Smolčić, V., Ivezić, Ž., Knapp, G.R., et al., 2004, *ApJ*, 615, L141 (arXiv:astro-ph/0403218), doi:10.1086/426475, ADS Link
- [513] Soderhjelm, S., 2004, *Theoretical modelling of observational double-star distribution functions.*, Tech. rep., DMS-SS-05
- [514] Söderhjelm, S., 2005, In: Turon, C., O'Flaherty, K.S., Perryman, M.A.C. (eds.) *ESA SP-576: The Three-Dimensional Universe with Gaia*, 97-+, ADS Link
- [515] Soffel, M., Klioner, S.A., Petit, G., et al., 2003, *AJ*, 126, 2687 (arXiv:astro-ph/0303376), doi:10.1086/378162, ADS Link
- [516] Software, T., 2005, *TIOBE Programming Community Index*, Tech. rep., [http://www.tiobe.com/index.htm?tiobe\\_index](http://www.tiobe.com/index.htm?tiobe_index)
- [517] for Software Standarisation, E.B., Control, 2004, *Java Coding Standards*, Tech. rep., ESA, [http://www.rssd.esa.int/llink/livellink/Java\\_coding\\_standards.pdf?func=doc.Fetch&nodeId=504569&docTitle=Java+coding+standards&vernum=1](http://www.rssd.esa.int/llink/livellink/Java_coding_standards.pdf?func=doc.Fetch&nodeId=504569&docTitle=Java+coding+standards&vernum=1)

- [518] Sordo, R., Vallenari, A., Tantalò, R., et al., 2011, *Journal of Physics Conference Series*, 328, 012006, doi:10.1088/1742-6596/328/1/012006, ADS Link
- [519] Sozzetti, A., 2005, *PASP*, 117, 1021 (arXiv:astro-ph/0507115), doi:10.1086/444487, ADS Link
- [520] Sozzetti, A., Casertano, S., Lattanzi, M.G., Spagna, A., 2001, *A&A*, 373, L21 (arXiv:astro-ph/0104391), doi:10.1051/0004-6361:20010788, ADS Link
- [521] Spite, M., 2005, In: Turon, C., O'Flaherty, K.S., Perryman, M.A.C. (eds.) *ESA SP-576: The Three-Dimensional Universe with Gaia*, 645–+, ADS Link
- [522] Spyak, P., Wolfe, W., 1991, *Optical Engineering*, 31, 1746
- [523] Stallman, R., 2001, *GNU Coding Standards*, Tech. rep., GNU
- [524] Stonebraker, M., Becla, J., Dewitt, D., et al., 2009, In: *Conference on Innovative Data Systems Research - CIDR*, URL [http://www-db.cs.wisc.edu/cidr/cidr2009/Paper\\_26.pdf](http://www-db.cs.wisc.edu/cidr/cidr2009/Paper_26.pdf)
- [525] support, D., 2006, *Linux Deployment guide*, Tech. rep., <http://support.dell.com/support/edocs/software/appora10/lin10g/en/dg/10g21en0.pdf>
- [526] **[LPM-55]**, Sweeney, D., McKercher, R., 2013, *Project Quality Assurance Plan*, LPM-55, URL <https://ls.st/LPM-55>
- [527] Sweeney, D., Claver, C., Jacoby, S., et al., 2010, In: Angeli, G.Z., Dierickx, P. (eds.) *Modeling, Systems Engineering, and Project Management for Astronomy IV*, vol. 7738 of *Proc. SPIE*, 0, doi:10.1117/12.857301, ADS Link
- [528] Swinbank, J., 2015, *LSST: Introduction and Data Management Requirements*, URL [http://wiki.ivoa.net/internal/IVOA/InterOpJune2015MCD/2015-06\\_-\\_LSST\\_at\\_IVOA\\_InterOp.pdf](http://wiki.ivoa.net/internal/IVOA/InterOpJune2015MCD/2015-06_-_LSST_at_IVOA_InterOp.pdf), Presented at the IVOA Interoperability Meeting, Sesto, Italy
- [529] Swinbank, J., 2016, *VOEvent Transport Protocol*, URL [http://wiki.ivoa.net/internal/IVOA/InterOpMay2016-TDIG/2016-05\\_-\\_VTP\\_at\\_InterOp.pdf](http://wiki.ivoa.net/internal/IVOA/InterOpMay2016-TDIG/2016-05_-_VTP_at_InterOp.pdf), Presentation at the Northern Spring IVOA Meeting, South Africa
- [530] Szalay, A.S., Gray, J., Thakar, A.R., et al., 2002, eprint arXiv:cs/0202013 (arXiv:cs/0202013), ADS Link

- [531] Szalay, A.S., Gray, J., VandenBerg, J., 2002, In: J. A. Tyson & S. Wolff (ed.) Society of Photo-Optical Instrumentation Engineers (SPIE) Conference Series, vol. 4836 of Society of Photo-Optical Instrumentation Engineers (SPIE) Conference Series, 333–338 (arXiv:cs/0208013), doi:10.1117/12.461427, ADS Link
- [532] Szalay, A.S., Gray, J., Fekete, G., et al., 2007, eprint arXiv:cs/0701164 (arXiv:cs/0701164), ADS Link
- [533] Taff, L.G., Bucciarelli, B., Lattanzi, M.G., 1990, *ApJ*, 361, 667, doi:10.1086/169230, ADS Link
- [534] Tapiador, D., O’Mullane, W., Browni, A.G.A., et al., 2014, *Computer Physics Communications*, 185, doi:http://dx.doi.org/10.1016/j.cpc.2014.02.010
- [535] Taylor, M., Boch, T., Fitzpatrick, M., et al., 2011, ArXiv e-prints (arXiv:1110.0528), ADS Link
- [536] team, A.G.F., 2003, *GAIA CCD and Focal Plan Technology Demonstrators: ASTRO FPA General Design Description*, Tech. rep., EADS/Astrium, GAIAFPA.NT.00120.T.ASTR
- [537] project team, A.S., 2002, *Gaia System Level Technical Reassessment Study*, Tech. rep., EADS Astrium, EF5/FR/PC/038.02
- [538] team, E.A.G., 2005, *GAIA Definition Study*, Tech. rep., EADS/Astrium, Final Presentation, Noordwijk, June 8, 2005
- [539] Team, G.P., 2006, *Gaia Mission Implementation Requirement Document*, Tech. rep., GAIA-EST-RQ-00457
- [540] Texier, D., 2005, *Note on Science Operations Ground Segment Documentation*, Tech. rep., ESA, SOGS-TN-ESAC-DT-001
- [541] Thakar, A.R., 2008, *Computing in Science and Engineering*, 10, 9, doi:10.1109/MCSE.2008.17, ADS Link
- [542] Thakar, A.R., Szalay, A., Fekete, G., Gray, J., 2008, *Computing in Science and Engineering*, 10, 30, doi:10.1109/MCSE.2008.15, ADS Link
- [543] Tholen, D.J., 1984, Ph.D. Thesis

- [544] Thomas, S.J., Chandrasekharan, S., Lotz, P., et al., 2016, In: Ground-based and Airborne Telescopes VI, vol. 9906 of Proc. SPIE, 99063B, doi:10.1117/12.2231798, ADS Link
- [545] Turon, C., O’Flaherty, K.S., Perryman, M.A.C. (eds.), 2005, *The Three-Dimensional Universe with Gaia*, vol. 576 of ESA Special Publication, ADS Link
- [546] Turon, C., O’Flaherty, K.S., Perryman, M.A.C. (eds.), 2005
- [547] Tyson, J.A., Roat, C., Bosch, J., Wittman, D., 2008, In: Argyle, R.W., Bunclark, P.S., Lewis, J.R. (eds.) *Astronomical Data Analysis Software and Systems XVII*, vol. 394 of *Astronomical Society of the Pacific Conference Series*, 107 (arXiv:0808.3425), ADS Link
- [548] **[LSE-63]**, Tyson, T., DQA Team, Science Collaboration, 2011, *Data quality Assurance Plan: Requirements for the LSST Data Quality Assessment Framework*, LSE-63, URL <https://ls.st/LSE-63>
- [549] **[LDM-141]**, Unknown, 2013, *Data Management Storage Sizing and I/O Model*, LDM-141, URL <https://ls.st/LDM-141>
- [550] **[LDM-144]**, Unknown, 2016, *Site Specific Infrastructure Estimation Model*, LDM-144, URL <https://ls.st/LDM-144>
- [551] **[LDM-130]**, Unknown, 2017, *LSST Science User Interface and Tools Requirements*, LDM-130, URL <https://ls.st/LDM-130>
- [552] Vagg, D., O’Callaghan, D., O’Hógáin, F., et al., 2016, In: *Society of Photo-Optical Instrumentation Engineers (SPIE) Conference Series*, vol. 9913 of SPIE, 99131V (arXiv:1605.09287), doi:10.1117/12.2233619, ADS Link
- [553] **[Gaia-NT-32000-115-CNES]**, Valadier, J.C., 2008, *Etude de risque EBIOS du systeme CNES-DPC (Limited distribution)*, Gaia-NT-32000-115-CNES
- [554] Valentijn, E.A., McFarland, J.P., Snigula, J., et al., 2007, In: R. A. Shaw, F. Hill, & D. J. Bell (ed.) *Astronomical Data Analysis Software and Systems XVI*, vol. 376 of *Astronomical Society of the Pacific Conference Series*, 491 (arXiv:astro-ph/0702189), ADS Link
- [555] **[LDM-131]**, van Dyk, S., Levine, D., 2013, *Science User Interface and Science User Tools Conceptual Design*, LDM-131, URL <https://ls.st/LDM-131>
- [556] van Leeuwen, F., 1997, *Space Science Reviews*, 81, 201, ADS Link

- [557] van Leeuwen, F., 2005, *A&A*, 439, 805 (arXiv:astro-ph/0505431), doi:10.1051/0004-6361:20053192, ADS Link
- [558] van Leeuwen, F., Fantino, E., 2005, *A&A*, 439, 791 (arXiv:astro-ph/0505432), doi:10.1051/0004-6361:20053193, ADS Link
- [559] Vande Putte, D., Smith, R.C., Hawkins, N.A., Martin, J.S., 2003, *MNRAS*, 342, 151 (arXiv:astro-ph/0302507), doi:10.1046/j.1365-8711.2003.06524.x, ADS Link
- [560] Vecchiato, A., Lattanzi, M.G., Bucciarelli, B., et al., 2003, *A&A*, 399, 337 (arXiv:astro-ph/0301323), doi:10.1051/0004-6361:20021785, ADS Link
- [561] Veron-Cetty, M., Veron, P., 2010, *Astronomy and Astrophysics*, 518, doi:10.1051/0004-6361/201014188, ADS Link
- [562] Vlemmings, W.H.T., Chatterjee, S., Briske, W.F., et al., 2005, *Memorie della Societa Astronomica Italiana*, 76, 531 (arXiv:astro-ph/0509025), ADS Link
- [563] van der Vorst, H., 2003, *Iterative Krylov Methods for Large Linear Systems*, Cambridge University Press
- [564] Vosteen, L.L.A., Draaisma, F., van Werkhoven, W.P., et al., 2009, In: *Astronomical and Space Optical Systems*, vol. 7439 of Society of Photo-Optical Instrumentation Engineers (SPIE) Conference Series, 743914, doi:10.1117/12.825240, ADS Link
- [565] Vosteen, L.L.A., Draaisma, F., van Werkhoven, W.P., et al., 2009, In: *Society of Photo-Optical Instrumentation Engineers (SPIE) Conference Series*, vol. 7439 of Society of Photo-Optical Instrumentation Engineers (SPIE) Conference Series, doi:10.1117/12.825240, ADS Link
- [566] Vuerli, C., O'Mullane, W., 2000, *DBMS-COTS test week report*, Tech. rep., ESA, PL-COM-OAT-TN-009
- [567] Vuillermet, M., Billon-Lanfrey, D., Reibel, Y., et al., 2012, *Proc. SPIE 8353, Infrared Technology and Applications XXXVIII*, 38, 83532, doi:10.1117/12.921868
- [568] Wang, D.L., Monkewitz, S.M., Lim, K.T., Becla, J., 2011, In: *State of the Practice Reports, SC '11*, 12:1-12:11, ACM, New York, NY, USA, URL <http://doi.acm.org/10.1145/2063348.2063364>, doi:<http://doi.acm.org/10.1145/2063348.2063364>

- [569] Wang, D.L., Monkewitz, S.M., Lim, K.T., Becla, J., 2011, In: State of the Practice Reports, SC '11, 12:1–12:11, ACM, New York, NY, USA, URL <http://dx.doi.org/10.1145/2063348.2063364>, doi:10.1145/2063348.2063364
- [570] Warell, J., Lagerkvist, C.I., 2006, A&A, submitted
- [571] Wertz(Editor), J.R., 1978, *Spacecraft Attitude Determination and Control*, Kluwer Academic Publishers, 1 edn.
- [572] Wieprecht, E., Brumfit, J., Bakker, J., et al., 2004, In: Ochsenbein, F., Allen, M.G., Egret, D. (eds.) *Astronomical Data Analysis Software and Systems (ADASS) XIII*, vol. 314 of *Astronomical Society of the Pacific Conference Series*, 376–+, ADS Link
- [573] Wilkinson, M.I., 2005, In: Turon, C., O’Flaherty, K.S., Perryman, M.A.C. (eds.) *ESA SP-576: The Three-Dimensional Universe with Gaia*, 651–+, ADS Link
- [574] Wilkinson, M.I., Evans, N.W., 1999, *MNRAS*, 310, 645 (arXiv:astro-ph/9906197), ADS Link
- [575] Wilkinson, M.I., Vallenari, A., Turon, C., et al., 2005, *MNRAS*, 359, 1306 (arXiv:astro-ph/0506083), doi:10.1111/j.1365-2966.2005.09012.x, ADS Link
- [576] Will, C., 1993, *Theory and experiment in gravitational physics*, Cambridge University Press, 2 edn.
- [577] Windmark, F., Lindegren, L., Hobbs, D., 2011, *A&A*, 530, A76 (arXiv:1104.2348), doi:10.1051/0004-6361/201116929, ADS Link
- [578] **[LPM-73]**, Wolff, S., 2013, *Operations Plan*, LPM-73, URL <https://ls.st/LPM-73>
- [579] Wood-Vasey, W.M., Rest, A., Smartt, S., et al., 2010, In: *Bulletin of the American Astronomical Society*, vol. 42 of *Bulletin of the American Astronomical Society*, ADS Link
- [580] Wu, X., Roby, W., Goldina, T., Ly, L., IRSA IPAC, 2015, In: *American Astronomical Society Meeting Abstracts*, vol. 225 of *American Astronomical Society Meeting Abstracts*, #434.06, ADS Link
- [581] Wu, X., Ciardi, D., Dubois-Felsmann, G., et al., 2016, In: Lorente, N.P.F., Shortridge, K. (eds.) *ADASS XXV*, vol. TBD of *ASP Conf. Ser.*, TBD, ASP, San Francisco
- [582] Wyrzykowski, L., Hodgkin, S., Blogorodnova, N., Kopusov, S., Burgon, R., 2012, *ArXiv e-prints* (arXiv:1210.5007), ADS Link



- [583] Yamada, Y., Hara, T., Yoshioka, S., et al., 2012, In: Ballester, P., Egret, D., Lorente, N.P.F. (eds.) *Astronomical Data Analysis Software and Systems XXI*, vol. 461 of *Astronomical Society of the Pacific Conference Series*, 585, [ADS Link](#)
- [584] Yasuda, N., Mizumoto, Y., Ohishi, M., et al., 2004, In: F. Ochsenbein, M. G. Allen, & D. Egret (ed.) *Astronomical Data Analysis Software and Systems (ADASS) XIII*, vol. 314 of *Astronomical Society of the Pacific Conference Series*, 293, [ADS Link](#)
- [585] **[Document-15125]**, Yoachim, P., Jones, L., Ivezić, Ž., Axelrod, T., 2013, *Photometric Self Calibration Design and Prototype*, Document-15125, URL <https://ls.st/Document-15125>
- [586] Zellner, B., Tholen, D.J., Tedesco, E.F., 1985, *Icarus*, 61, 355, doi:10.1016/0019-1035(85)90133-2, [ADS Link](#)
- [587] Zucher, S., Mazech, T., 1994, 420 806
- [588] Zucher, S., Mazech, T., Santos, N., Udry, S., Mayor, M., 2004, 420 806