

Bibliography

- Appourchaux, T., & The VIRGO Team 1995, *VIRGO Purple Book v2.2*,
<http://virgo.so.estec.esa.nl>.
- Appourchaux, T., & Telljohann, U. 1996, *LOI GSE and VDC specification Document v1.7*, <http://virgo.so.estec.esa.nl>.
- Auffret, H., & Muller, R. 1991, *Astron. Astrophys.*, 246, 264.
- Balmforth, N.J., Gough, D.O., & Merryfield, W.J. 1996, *Month. Not. Royal Astron. Soc.*, 278, 437.
- Berger, T.E., Schrijver, C.J., Shine, R.A., Tarbell, T.D., Title, A.M., & Scharmer, G. 1995, *Astrophys. J.*, 454, 531.
- Brusa, R.W., & Fröhlich, C. 1986, *Appl. Optics*, 25, 4173.
- Chapman, G.A. 1980, *Astrophys. J.*, 242, L45.
- Chapman, G.A. 1987, *Ann. Rev. Astron. Astrophys.*, 25, 633.
- Chapman, G.A., & Klabunde, D.P. 1982, *Astrophys. J.*, 261, 387.
- Chapman, G.A., & McGuire, T.E. 1977, *Astrophys. J.*, 217, 657.
- Chapman, G.A., & Meyer, A.D. 1986, *Solar Phys.*, 103, 21.
- Chapman, G.A., Herzog, A.D., Lawrence, J.K., Walton, S.R., Hudson, H.S., & Fisher, B.M. 1992, *J. Geophys. Res.*, 97, 8211.
- Crommelynck, D. 1988, in *New Developments and Applications in Optical Radiometry*, ed. N. Fox, Inst. Phys. Conf. Ser., 92, p.19.
- Crommelynck, D., Domingo, V., & Fröhlich, C. 1991, *Adv. Space Res.*, 11, 83.

- Crommelynck, D., Fichot, A., Lee, R.B. III, & Romero, J. 1995, *Adv. Space Res.*, 16, 817.
- Deinzer, W., Hensler, G., Schüssler, M., & Weisshaar, E. 1984a, *Astron. Astrophys.*, 139, 426.
- Deinzer, W., Hensler, G., Schüssler, M., & Weisshaar, E. 1984b, *Astron. Astrophys.*, 139, 435.
- Démoulin, P., Mandrini, C.H., van Driel-Gesztelyi, L., Thompson, B.J., Plunkett, S., Kővári, Zs., Aulanier, G., & Young, A. 2002, *Astron. Astrophys.*, 382, 650.
- Domingo, V., Fleck, B., & Poland, A.I. 1995, *Solar Phys.*, 162, 1.
- Dunn, R.B., & Zirker, J.B. 1973, *Solar Phys.*, 33, 281.
- Eddy, J.A. 1976, *Science*, 192, 1189.
- Ermolli, I., Berrilli, F., & Florio A. 1999, *Proc. 9th European Meeting on Solar Physics, Magnetic Fields and Solar Processes, ESA SP-448*, ESA Publications Division, p.275.
- Fligge, M., & Solanki, S.K. 2000, *J. Astrophys. Astr.*, 21, 275.
- Fligge, M., Solanki, S.K., Meunier, N., & Unruh, Y.C 2000a, *The First SOLSPA Euroconference: The Solar Cycle and Terrestrial Climate, ESA SP-463*, ESA Publications Division, p.117.
- Fligge, M., Solanki, S.K., & Unruh, Y.C. 2000b, *Astron. Astrophys.*, 353, 380.
- Foukal, P. 1981, in *The Physics of Sunspots*, eds. L.E. Cram & J.H. Thomas, (Sacramento Peak Observatory, Sunspot, NM), p.391.
- Foukal, P., & Fowler, L. 1984, *Astrophys. J.*, 281, 442.
- Foukal, P., & Lean, J.L. 1986, *Astrophys. J.*, 302, 826.
- Foukal, P., & Lean, J.L. 1988, *Astrophys. J.*, 328, 347.
- Foukal, P., & Lean, J.L. 1990, *Science*, 247, 556.
- Foukal, P., Harvey, K., & Hill, F., 1991, *Astrophys. J.*, 383, L89.

- Frazier, E.N. 1971, *Solar Phys.*, 21, 42.
- Freeland, S.L., & Bentley, R.D. 1998, *SolarSoft: Overview, Installation, Configuration and Tutorials*, <http://www.lmsal.com/solarsoft/>.
- Freeland, S.L., & Handy, B.N. 1998, *Solar Phys.*, 182, 497.
- Fröhlich, C. 1984, *Adv. Space Res.*, 4, 117.
- Fröhlich, C. 2000, *Space Sci. Rev.*, 94, 15.
- Fröhlich, C., & Lean J.L. 1998a, *Geophys. Res. Lett.*, 25, 4377.
- Fröhlich, C., & Lean J.L. 1998b, in *New Eyes to See Inside the Sun and Stars*, eds. F.L. Deubner, J. Christensen-Dalsgaard & D. Kurtz, IAU Symp., 185, (Kluwer Academic Publishers, Dordrecht), p.89.
- Fröhlich, C., Romero, J., Roth, H., Wehrli, C., Andersen, B.N., Apourchaux, T., Domingo, V., Telljohann, U., Berthomieu, G., Delache, P., Provost, J., Toutain, T., Crommelynck, D.A., Chevalier, A., Fichot, A., Dappen, W., Gough, D., Hoeksema, T., Jiménez, A., Gómez, M.F., Herreros, J.M., Roca, T., Jones, A.R., Pap, J.M., & Willson, R.C. 1995, *Solar Phys.*, 162, 101.
- Grossmann-Doerth, U., Knölker, M., Schüssler, M., & Weisshaar, E. 1989, in *Solar and Stellar Granulation*, eds. R.J. Rutten & G. Severino, NATO ASI Ser. C-263, (Kluwer Academic Publishers, Dordrecht), p.481.
- Grossmann-Doerth, U., Knölker, M., Schüssler, M., & Solanki, S.K. 1994, *Astron. Astrophys.*, 285, 648.
- Hagenaar, H.J. 2001, *Astrophys. J.*, 555, 448.
- Hagenaar, H.J., Schrijver, C.J., & Title, A.M. 2003, *Astrophys. J.*, 584, 1107.
- Hale, G.E. 1908, *Astrophys. J.*, 28, 315.
- Handy, B., Acton, L., Kankelborg, C., Wolfson, C., Akin, D., Bruner, M., Carvalho, R., Catura, R., Chevalier, R., Duncan, D., Edwards, C., Feinstein, C., Freeland, S., Friedlaender, F., Hoffmann, C., Hurlburt, N., Jurcevich, B., Katz, N., Kelly, G., Lemen, J., Levay, M., Lindgren, R.W., Mathur, D., Meyer, S., Morrison, S., Morrison, M.D.,

- Nightingale, R., Pope, T., Rehse, R., Schrijver, C., Shine, R.A., Shing, L., Strong, K.T., Tarbell, T., Title, A., Torgerson, D., Golub, L., Bookbinder, J., Caldwell, D., Cheimets, P.N., Davis, W., Deluca, E.E., McMullen, R., Warren, H., Amato, D., Fisher, R., Maldonado, H., & Parkinson, C. 1999, *Solar Phys.*, 187, 229.
- Harvey, K.L. 1994, in *The Sun as a Variable Star: Solar and Stellar Irradiance Variations*, eds. J.M. Pap, C. Fröhlich, H.S. Hudson, & S.K. Solanki, IAU Coll., 143, (Cambridge Univ. Press, Cambridge), p.217.
- Harvey, K.L., & White, O.R. 1999, *Astrophys. J.*, 515, 812.
- Harvey, K.L., & Hudson, H.S. 2000, *Adv. Space Res.*, 25, 1735.
- Hickey, J.R., Alton, B.M., Kyle, H.L., & Hoyt, D.V. 1988, *Space Sci. Rev.*, 48, 321.
- Hoeksema, J.T. 1994, in *The Sun as a Variable Star: Solar and Stellar Irradiance Variations*, eds. J.M. Pap, C. Fröhlich, H.S. Hudson, & S.K. Solanki, IAU Coll., 143, (Cambridge Univ. Press, Cambridge), p.138.
- Hudson, H.S. 1988, *Ann. Rev. Astron. Astrophys.*, 26, 473.
- Hudson, H.S., Silva, S., Woodard, M., & Willson, R.C. 1982, *Solar Phys.*, 76, 211.
- Hudson, H.S., & Woodard, M. 1983, *Bull. Am. Astron. Soc.*, 15, 715.
- Ingersoll, A.P., & Chapman, G.A. 1975, *Solar Phys.*, 42, 279.
- Johannesson, A., Marquette, W., & Zirin, H. 1995, *Solar Phys.*, 161, 201.
- Keller, C.U. 1992, *Nature*, 359, 307.
- Knölker, M., & Schüssler, M. 1988, *Astron. Astrophys.*, 202, 275.
- Knölker, M., & Schüssler, M. 1989, in *Flux tubes in the solar atmosphere*, eds. E. Leer & P. Maltby, Institute of Theoretical Astrophysics (University of Oslo), p.17.
- Knölker, M., Schüssler, M., & Weisshaar, E. 1988, *Astron. Astrophys.*, 194, 257.

- Krivova, N.A., Solanki, S.K., Fligge, M., & Unruh, Y.C. 2003, *Astron. Astrophys.*, 399, L1.
- Kuhn, J.R., Libbrecht, K.G., & Dicke, R.H. 1988, *Science*, 242, 908.
- Langley, S.P. 1903, *Astrophys. J.*, 17, 89.
- Lawrence, J.K. 1987, *Solar Phys.*, 110, 73.
- Lawrence, J.K. 1988, *Solar Phys.*, 116, 17.
- Lawrence, J.K., & Chapman, G.A. 1988, *Astrophys. J.*, 335, 996.
- Lawrence, J.K., & Chapman, G.A. 1990, *Astrophys. J.*, 361, 709.
- Lawrence, J.K., Chapman, G.A., & Herzog, A.D. 1988, *Astrophys. J.*, 324, 1184.
- Lawrence, J.K., Topka, K.P., & Jones, H.P. 1993, *J. Geophys. Res.*, 98, 18911.
- Lean, J.L. 1991, *Rev. Geophys.*, 29, 505.
- Lean, J.L., Skumanich, A., & Oran, W. 1992, *Geophys. Res. Lett.*, 19, 1595.
- Lean, J.L., Beer, J., & Bradley, R. 1995, *Geophys. Res. Lett.*, 22, 3195.
- Lean, J.L., Cook, J., Marquette, W., & Johannesson, A. 1998, *Astrophys. J.*, 492, 390.
- Libbrecht, K.G., & Kuhn, J.R. 1984, *Astrophys. J.*, 277, 889.
- Libbrecht, K.G., & Kuhn, J.R. 1985, *Astrophys. J.*, 299, 1047.
- Liu, Y., & Norton, A.A. 2001, *SOI Technical Note SOI TN-01-144*, (Stanford University, Stanford),
http://soi.stanford.edu/data/cal/mag_data.html#nonlinearity.
- Meunier, N. 2003, *Astron. Astrophys.*, 405, 1107.
- Mihalas, D. 1970, in *Stellar Atmospheres*, (W. H. Freeman and Company, San Francisco), p. 43.
- Muller, R. 1975, *Solar Phys.*, 45, 105.
- Muller, R. 1983, *Solar Phys.*, 87, 243.

- Murray, N. 1992, *Astrophys. J.*, 401, 386.
- Neckel, H., & Labs, D. 1994, *Solar Phys.*, 153, 91.
- Ortiz, A. 1999, *Masters thesis*, Universitat de Barcelona.
- Pang, K.D., & Yau, K. 2002, *EOS Transactions, American Geophysical Union*, 83, n.43, 481.
- Preminger, D.G., Walton, S.R., & Chapman, G.A. 2001, *Solar Phys.*, 202, 53.
- Sánchez Almeida, J., & Martínez Pillet, V. 1994, *Astrophys. J.*, 424, 1014.
- Sánchez Cuberes, M., Vázquez, M., Bonet, J.A., & Sobotka, M. 2002, *Astrophys. J.*, 570, 886.
- Schatten, K.H., Mayr, H.G., Omidvar, K., & Maier, E. 1986, *Astrophys. J.*, 311, 460.
- Scherrer, P.H., Bogart, R.S., Bush, R.I., Hoeksema, J.T., Kosovichev, A.G., Schou, J., Rosenberg, W., Springer, L., Tarbell, T.D., Title, A., Wolfson, C.J., Zayer, I., & The MDI Engineering Team 1995, *Solar Phys.*, 162, 129.
- Schrijver, C.J., & Harvey, K.L. 1989, *Astrophys. J.*, 343, 481.
- Schrijver, C.J., & Zwaan, C. 2000, in *Solar and Stellar Magnetic Activity*, Cambridge Astrophysics Series, 34, (Cambridge Univ. Press, Cambridge).
- Solanki, S.K. 1986, *Astron. Astrophys.*, 168, 311.
- Solanki, S.K. 1993, *Space Sci. Rev.*, 63, 1.
- Solanki, S.K. 1994, in *The Sun as a Variable Star: Solar and Stellar Irradiance Variations*, eds. J.M. Pap, C. Fröhlich, H.S. Hudson, & S.K. Solanki, IAU Coll., 143, (Cambridge Univ. Press, Cambridge), p.226.
- Solanki, S.K. 2001, in *Magnetic Fields Across the HR Diagram*, eds. G. Mathys, S.K. Solanki & D. Wickramasinghe, ASP Conf. Ser., 248, (Astronomical Society of the Pacific), p.45.
- Solanki, S.K., & Stenflo, J.O. 1984, *Astron. Astrophys.*, 140, 185.

- Solanki, S.K., & Brigljević, V. 1992, *Astron. Astrophys.*, 262, L29.
- Solanki, S.K., & Fligge, M. 1998, *Geophys. Res. Lett.*, 25, 341.
- Solanki, S.K., & Fligge, M. 1999, *Geophys. Res. Lett.*, 26, 2465.
- Solanki, S.K., & Fligge, M. 2002, *Adv. Space Res.*, 29, 1933.
- Solanki, S.K., Finsterle, W., Rüedi, I., & Livingston, W. 1999, *Astron. Astrophys.*, 347, L27.
- Spruit, H.C. 1976, *Solar Phys.*, 50, 269.
- Spruit, H.C., & Zwaan, C. 1981, *Solar Phys.*, 70, 207.
- Steinegger, M., Brandt, P.N., & Haupt, H.F. 1996, *Astron. Astrophys.*, 310, 635.
- Steiner, O., Grossmann-Doerth, U., Schüssler, M., & Knölker, M. 1996, *Solar Phys.*, 164, 223.
- Stenflo, J.O. 1973, *Solar Phys.*, 32, 41.
- Stenflo, J.O. 1985, *Solar Phys.*, 100, 189.
- Svensmark, H., & Friis-Christensen, E. 1997, *J. Atmos. Solar-Terr. Phys.*, 59, 1225.
- Ten Bruggencate, P. 1940, *Zeit. Astrophys.*, 19, 59.
- Thuillier, G., Hersé, M., Simon, P., Labs, D., Mandel, H., Gillotay, D., & Foujols, T. 1998, *Solar Phys.*, 177, 41.
- Topka, K.P., Tarbell, T.D., & Title, A.M. 1992, *Astrophys. J.*, 396, 351.
- Topka, K.P., Tarbell, T.D., & Title, A.M. 1997, *Astrophys. J.*, 484, 479.
- Turmon, M., Pap, J.M., & Mukhtar, S. 2002, *Astrophys. J.*, 568, 396.
- Unruh, Y.C., Solanki, S.K., & Fligge, M. 1999, *Astron. Astrophys.*, 345, 635.
- van Driel-Gesztelyi, L., Démoulin, P., Mandrini, C.H., Harra, L., & Klimchuk, J.A. 2003, *Astrophys. J.*, 586, 579.

- Walton, S.R., Preminger, D.G., & Chapman, G.A. 2001, *EOS Transc., American Geophysical Union, Spring Meeting*, abstract n. SP21A-04.
- Walton, S.R., Preminger, D.G., & Chapman, G.A. 2003, *Astrophys. J.*, 590, 1088.
- Wang, H., & Zirin, H. 1987, *Solar Phys.*, 110, 281.
- Wehrli, C., Fröhlich, C., & Romero, J. 1995, *Adv. Space Res.*, 16, 25.
- Wehrli, C., Appourchaux, T., Crommelynck, D., Finsterle, W., Fröhlich, C., & Pap, J. 1998, in *Sounding solar and stellar interiors*, eds. J. Provost, & F. Schmider, IAU Symp., 181, (Kluwer Academic Publishers, Dordrecht), p.146.
- Wenzler, T., Solanki, S.K., Fluri, D.M., Frutiger, C., Fligge, M. & Ortiz, A. 2002, *SOHO 11: From Solar Min to Max, Half a Solar Cycle with SOHO, ESA SP-508*, ESA Publications Division, p.231.
- Willson, R.C. 1981, *Solar Phys.*, 74, 217.
- Willson, R.C. 1994, in *The Sun as a Variable Star: Solar and Stellar Irradiance Variations*, eds. J.M. Pap, C. Fröhlich, H.S. Hudson, & S.K. Solanki, IAU Coll., 143, (Cambridge Univ. Press, Cambridge), p.54.
- Willson, R.C., & Hudson, H.S. 1988, *Nature*, 332, 810.
- Willson, R.C., Gulkis, S., Janssen, M., Hudson, H.S., & Chapman, G.A. 1981, *Science*, 211, 700.
- Woodard, M., & Hudson, H.S. 1983, *Nature*, 305, 589.
- Woods, T.N., Ucker, G.J., & Rottman, G.J. 1993, *J. Geophys. Res.*, 98, 10679.
- Zayer, I., Stenflo, J.O., Keller, C.U., & Solanki, S.K. 1990, *Astron. Astrophys.*, 239, 356.
- Zwaan, C. 1987, *Ann. Rev. Astron. Astrophys.*, 25, 83.