

CURRICULUM VITAE

PIETRO N. BERNASCONI INSTITUTIONAL PI

Current Position

The Johns Hopkins University / Applied Physics Laboratory
Senior Scientist
Space Department, Space Science Group, Solar Physics Section

Education

1992 Diploma (Physics) (equivalent to American Master's Thesis), Swiss Federal Institute of Technology Zürich (ETH-Z)
1997 Ph.D. (Natural Science), Swiss Federal Institute of Technology Zürich (ETH-Z)

Relevant experience

2014 Gondola Lead Engineer and Mission Manager for Balloon Observation Platform for Planetary Science (BOPPS)
2013 Gondola Lead Engineer and Mission Manager for Balloon Rapid Response for ISON (BRRISON)
2008 - present: Payload PI, Stratospheric TeraHertz Observatory balloon program.
2007 - present: PI, Solar Bolometric Imager balloon/space program.
2001-2007: Project Scientist, Solar Bolometric Imager balloon program.
1997-2004: Project Scientist, Flare Genesis Experiment balloon program.
1992-1997: Research Fellow, Institute for Astronomy of the Swiss Federal Institute of Technology Zürich, Solar Physics Group.

Professional Societies

Member American Astronomical Society, Solar Physics Division (SPD)
Member American Geophysical Union (AGU)
Member Society of Photo-Optical Instrumentation Engineers (SPIE)

Relevant Publications

Bernasconi P.N., Rust D.M., Eaton H.A.C., Murphy G.A., A Balloon-borne Telescope for high resolution solar imaging and polarimetry, in Airborne Telescope Systems, eds. R.K. Melugin, H.P. Röser, Proc. of SPIE Vol. 4014, 214 (2000)
Bernasconi P.N., Rust D.M., Eaton H.A.C., High resolution vector magnetograms with the Flare Genesis vector polarimeter, in Advanced Solar Polarimetry - Theory, Observation, and Instrumentation, M. Sigwarth (Ed.), Astron. Soc. Pacific Conf. Series Vol. 236, 399-406 (2001)
Bernasconi P. N., Rust D. M., Georgoulis M. K., LaBonte B. J. 2002, Moving Dipolar Features in an Emerging Flux Region, Sol. Phys. 209, 119-139 (2002)
Bernasconi P.N., Eaton H.A.C., Foukal, P., Rust D.M., The Solar Bolometric Imager, in Advances in Space Research Vol. 33 1746 (2004)
Foukal, P., Bernasconi, P. N., Eaton, H. A. C., and Rust, D. M., Broad-band Measurements of Facular Photometric Contrast with the Solar Bolometric Imager, Astrophysical Journal 611, L57, (2004)
C. Walker, C. Kulesa, P. Bernasconi, et al., 2010, The Stratospheric THz Observatory (STO), in Ground-based and Airborne Telescopes III, eds. Larry M. Stepp, Roberto Gilmozzi, Helen J. Hall, Proc. of SPIE Vol. 7733, 77330N (2010)