Kevin Patrick Reardon

National Solar Observatory

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Professional Preparation:

Institution	Location	Major	Degree, Year
Williams College	Williamstown, MA, USA	Astrophysics	Bachelor of Arts with Honors, 1992
Queen's University Belfast	Belfast, NI, UK	Astrophysics	Doctor of Philosophy, 2013

Appointments:

2019 – present :	Adjunct Professor, Astrophysical and Planetary Sciences, CU, Boulder, CO
2012 – present :	Associate Scientist, National Solar Observatory, Boulder, CO, USA
2009 – 2012 :	Adjunct Scientist, National Solar Observatory, Sunspot, New Mexico, USA
2001 – 2012 :	Research Assistant, INAF/Osservatorio Astrofisico di Arcetri, Florence, Italy
2002 – 2005 :	Research Assistant, INAF/Osservatorio Astrofisico di Torino, Torino, Italy
1996 – 2001 :	Research Assistant, Osservatorio Astronomico di Capodimonte, Naples, Italy
1992 – 1995 :	Research Assistant, Institute for Astronomy, Honolulu, Hawai`i, USA

Selected Publications:

[1] Canfield, R.C., *Reardon, K.P.,* Leka, K. D., Shibata, K., Yokoyama, T., Shimojo, M., 1996, "H-alpha Surges and X-Ray Jets in AR 7260," *Astrophysical Journal*, **464**, 1016.

[2] *Reardon, K.*, and Cavallini, F., 2008, "Characterization of Fabry-Perot interferometers and multi-etalon transmission profiles. The IBIS instrumental profile," *Astronomy & Astrophysics*, **481**, 897 (doi: 10.1051/0004-6361:20078473).

[3] *Reardon, K. P.*, Lepreti, F., Carbone, V., Vecchio, A., 2008, "Evidence of Shock-driven Turbulence in the Solar Chromosphere," *Astrophysical Journal*, **683**, L207.

[4] *Reardon, K.P.*, and Berukoff, S., 2014, "Improved data exploitation for DKIST high-resolution observations," *2014 IEEE International Conference on Big Data*, 45.

[5] Molnar, M.E.; *Reardon, K.P.*; Chai, Y., Gary, D., Uitenbroek, H.; Cauzzi, G. Cranmer, S.R., 2019, "Solar Chromospheric Temperature Diagnostics: A Joint ALMA-Hα Analysis," *Astrophysical Journal*, **881**, 99.

Professional Experience:

Kevin Reardon has a long experience in high-resolution solar observations combining data from satellites (Yohkoh, SOHO, TRACE, Hinode, SDO, IRIS, etc.) and ground-based observatories (Mees Solar Observatory, Sacramento Peak Observatory, Big Bear Solar Observatory). He has experience in the techniques to accurately combine observations from different platforms. He has developed and distributed code in IDL to allow users to make better use of imaging, ground-based data. He has also been involved in many projects aiming to develop the information technology infrastructure necessary to permit efficient use of solar data from heterogeneous distributed sources.