About SpecCal v.1.2

SpecCal is a stand-alone IDL application for the in-field spectral calibration of high-resolution spectrometers, based on the spectral matching algorithm proposed by Meroni et al. (2010)[1].

SpecCal was developed by **Lorenzo Busetto** (GUI development, Software optimization, Debugging) and **Michele Meroni** (Algorithm development and testing, Software optimization) of the Environmental Dynamics Remote Sensing Laboratory of the University of Milano-Bicocca, Italy. Information for contacting the authors is reported at the end of this document.

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The user's of SpecCal are encouraged to report to the authors eventual bugs and malfunctioning of the software. Reports regarding good or bad performances of SpecCal on specific input data are also encouraged.

The following public-domain IDL routines of other authors are used by SpecCal:

- *ERROR_MESSAGE, FSC_COLOR, GREEK, PICKCOLORNAME, PROGRAMROOTTODIR, PROGRESSBAR__DEFINE, WRITE_CSV_DATA*: Written by **David Fanning** (FANNING SOFTWARE CONSULTING) Available online at http://www.dfanning.com/documents/programs.html

- *LOWESS, ROB_CHECKFIT, ROBUST_LINEFIT, ROBUST_POLY_FIR, ROBUST_SIGMA*: Written **by H.T. Freudenreich.** Available on line at the IDL Astronomy User's Library - http://idlastro.gsfc.nasa.gov/

- *LEGEND*: Written by **F.K. Knight**. Available on line at the IDL Astronomy User's Library - http://idlastro.gsfc.nasa.gov/

- *SAVEIMAGE*: Written by **Liam E. Gumley** – Available online at www.gumley.com/PIP/**Pro**grams/**saveimage.pro**

- *TNMIN*: Written by **Craig B. Markwardt** – Available online at http://www.physics.wisc.edu/~craigm/idl/down/tnmin.pro

- *DIALOG_CHOICE*: by **Ben Tupper**

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[1] Meroni, M., Busetto, L., Guanter, L. *et al.*, 2010. Characterization of fine resolution field spectrometers using solar Fraunhofer lines and atmospheric absorption features. Applied Optics, ID 124696 (posted 04/05/2010, in press).

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