

# The Asclepias project

Sergi Blanco-Cuaresma & the ADS Team

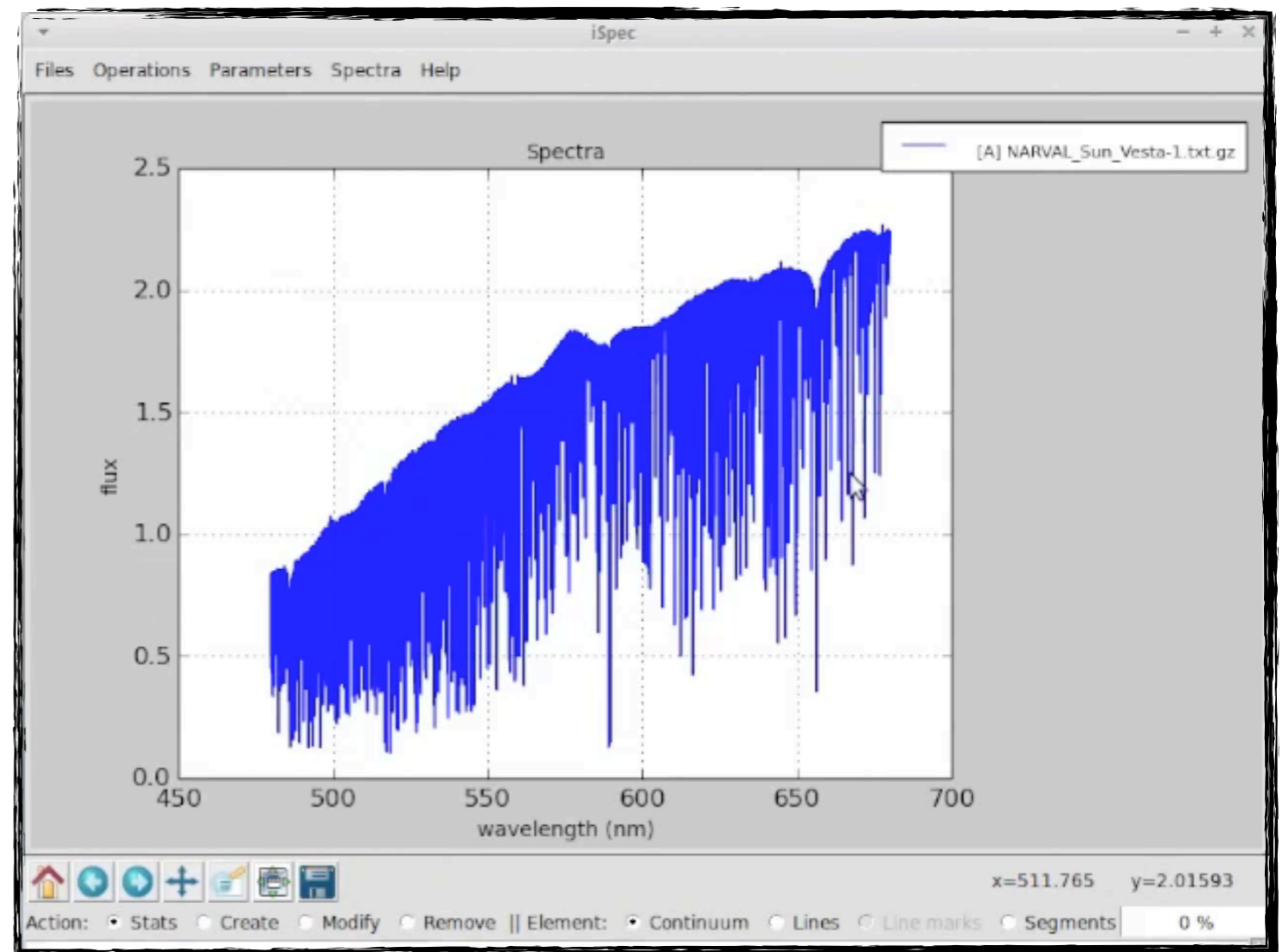
ADS Users Group Meeting - 11/2/2017







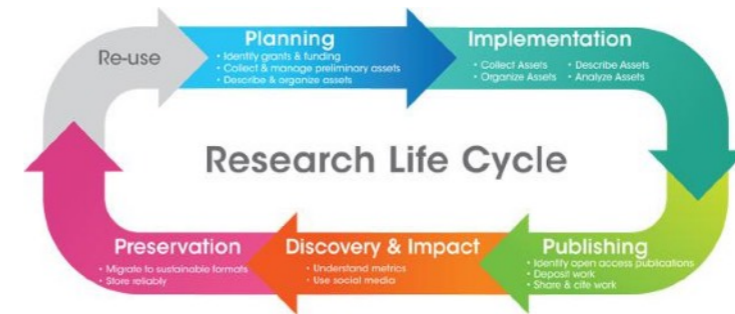
Determining stellar atmospheric parameters and chemical abundances of FGK stars with **iSpec** (Blanco-Cuaresma et al. 2014a)



[www.blancocuaresma.com/s/](http://www.blancocuaresma.com/s/)







"Research Life Cycle" image from UC Irvine Library Digital Scholarship Services (<https://www.lib.uci.edu/dss>)

- Citation system is centered around **articles**

- Software papers

- Software records (e.g., ASCL)

A&A 569, A111 (2014)  
DOI: 10.1051/0004-6361/201423945  
© ESO 2014

**Astronomy & Astrophysics**

**Determining stellar atmospheric parameters and chemical abundances of FGK stars with iSpec\***

S. Blanco-Cuaresma<sup>1,2</sup>, C. Soubiran<sup>1,2</sup>, U. Heiter<sup>3</sup>, and P. Jofré<sup>1,2,4</sup>

<sup>1</sup> Univ. Bordeaux, LAB, UMR 5804, 33270 Floirac, France  
e-mail: blanco@obs.u-bordeaux.fr  
<sup>2</sup> CNRS, LAB, UMR 5804  
<sup>3</sup> Department of Physics  
<sup>4</sup> Institute of Astronomy

Received 4 April 2014 / Accepted 10 June 2014

**ASCL.net**  
Astrophysics Source Code Library

Making codes discoverable since 1999

Search Site Search

Home About Resources Browse Submissions News Forum Dashboard

**ASCL Code Record**

[ascl:1409.006] **iSpec: Stellar atmospheric parameters and chemical abundances**  
Blanco-Cuaresma, S.; Soubiran, C.; Heiter, U.; Jofré, P.

iSpec is an integrated software framework written in Python for the treatment and analysis of stellar spectra and abundances. Spectra treatment functions include cosmic rays removal, continuum normalization, resolution degradation, and telluric lines identification. It can also perform radial velocity determination and correction and resampling. iSpec can also determine atmospheric parameters (i.e. effective temperature, surface gravity, metallicity, micro/macroturbulence, rotation) and individual chemical abundances by using either the synthetic spectra fitting technique or equivalent widths method. The synthesis is performed with SPECTRUM ([ascl:9910.002](http://www.ascl.net/9910.002)).

Code site: <http://www.blancocuaresma.com/s/iSpec/>  
Appears in: <http://adsabs.harvard.edu/abs/2014A%26A...569A.111B>

Bibcode: 2014ascl.soft09006B

Preferred citation method:  
<http://adsabs.harvard.edu/abs/2014A%26A...569A.111B>

Explain these fields?

ascl 1409.006

Add this shield to your page

Discuss

Views: 1212  
[Suggest a change or addition.](#)



ALFRED P. SLOAN  
FOUNDATION

Asclepias

Enabling software citation and  
discovery workflows, 2016

August Muench



Alberto Accomazzi  
Edwin Henneken  
Sergi Blanco-Cuaresma

Lars Holm Nielsen  
Krzysztof Nowak  
Alexander Ioannidis



Thomas Robitaille

## Asclepias

Enabling software citation and discovery workflows, 2016

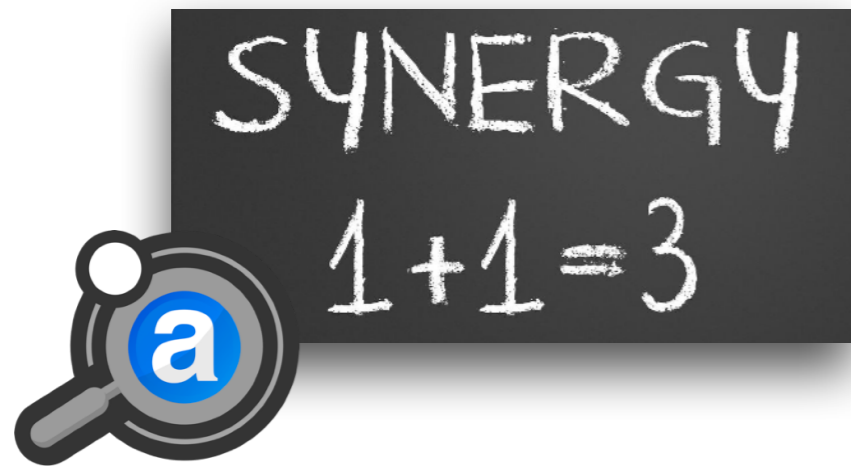
# GitHub



Record

- Version 1
- Version 2





## Asclepias

Enabling software citation and discovery workflows, 2016

- New tech and workflows
- Create a webhook service to emit events
- Adaptable to other sources (e.g., data)

