

*Bringing the VO to the community:
The SVO experience after 16.5 years.*
Enrique Solano



CENTRO DE ASTROBIOLOGÍA



The Spanish VO

<https://svo.cab.inta-csic.es>

Spanish Virtual Observatory

CENTRO DE ASTROBIOLOGÍA

EXCELENCIA MARÍA DE MAEZTU

ESCAPE

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Tweets by @ObsVirtEsp

- ObsVirtEsp** @ObsVirtEsp and tutors from @ObsVirtEsp Oct 23, 2021
- ObsVirtEsp** @ObsVirtEsp 39 new filters available at the @ObsVirtEsp Filter Profile Service (svo2.cab.inta-csic.es/theory/fps/)

2021-10-19

VO-science in the Spanish VO

Property
+property:refereed



Date ▾

▼ AUTHORS

- > Solano, E 32
- > Jimenez-Esteban, F 16
- > Rodrigo, C 15
- > Caballero, J 10
- > Rauch, T 9

more

▼ COLLECTIONS

- astronomy 110
- physics 4
- general 2

▼ REFEREED

- refereed 110

> INSTITUTIONS

> KEYWORDS

> PUBLICATIONS

> BIB GROUPS

> SIMBAD OBJECTS

> NED OBJECTS



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- 1 2021MNRAS.506.5201R 2021/10 cited: 2
White dwarf-main-sequence binaries from Gaia EDR3: the unresolved 100 pc volume-limited sample
Rebassa-Mansergas, A.; Solano, E.; Jiménez-Esteban, F. M. *and 6 more*
- 2 2021A&A...653A.107R 2021/09 cited: 1
Preparing for LSST data. Estimating the physical properties of $z < 2.5$ main-sequence galaxies
Riccio, G.; Małek, K.; Nanni, A. *and 8 more*
- 3 2021A&A...650A.190G 2021/06 cited: 1
Wide companions to M and L subdwarfs with Gaia and the Virtual Observatory
González-Payo, J.; Cortés-Contreras, M.; Lodieu, N.; Solano, E.; Zhang, Z. H.; Gálvez-Ortiz, M. -C. *show less*
- 4 2021A&A...650A.182G 2021/06 cited: 3
Homogeneous study of Herbig Ae/Be stars from spectral energy distributions and Gaia EDR3
Guzmán-Díaz, J.; Mendigutía, I.; Montesinos, B.; Oudmajer, R. D.; Vioque, M.; Rodrigo, C.; Solano, E.; Meeus, G.; Marcos-Arenal, P. *show less*
- 5 2021MNRAS.501..281S 2021/01
Ultracool dwarfs in deep extragalactic surveys using the virtual observatory: ALHAMBRA and COSMOS
Solano, E.; Gálvez-Ortiz, M. C.; Martín, E. L. *and 8 more*

VO-science in the Spanish VO

WP4.- Support to Science Community

T4.1. VO-schools

T4.2.1 Ultracool objects

T4.2.2 Transient sky

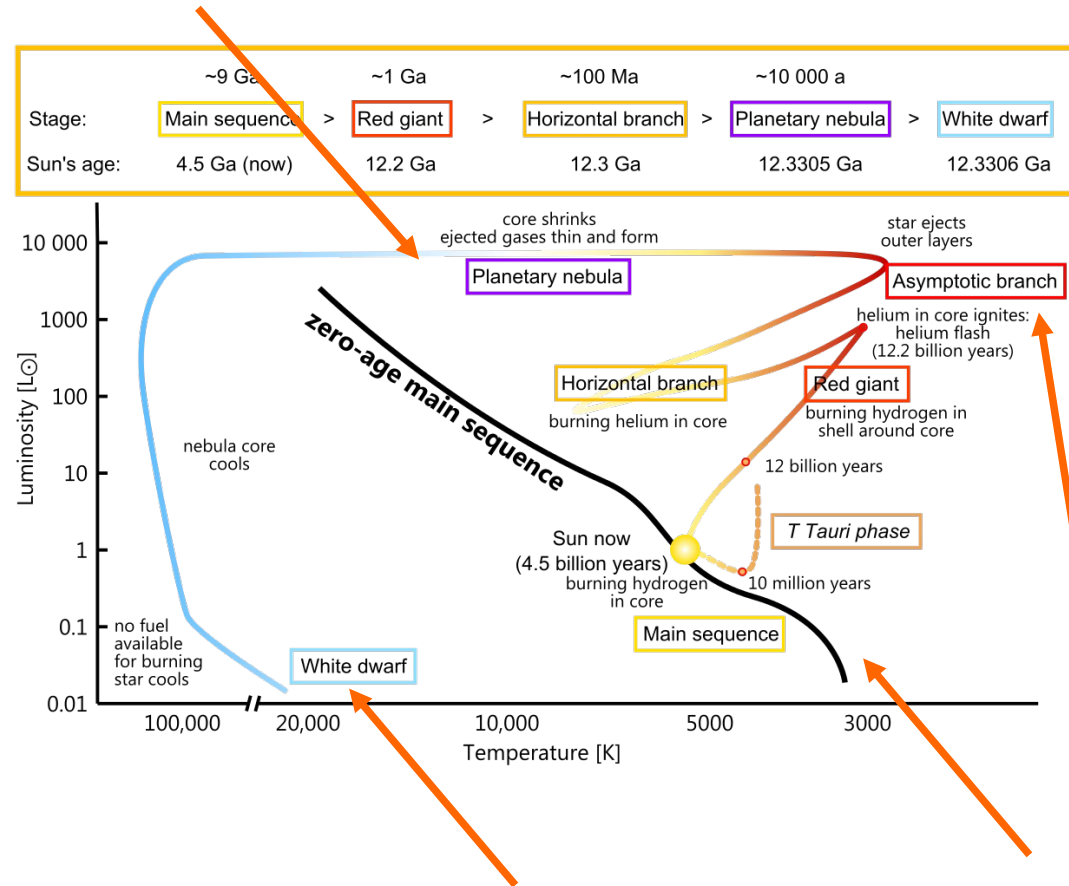
T4.2.3 M-dwarfs in eclipsing binaries

T4.2.4 AGB stars

T4.2.5 White dwarfs

T4.2.6 Colours of the Sun

T4.2.7 Binarity in Planetary Nebulae

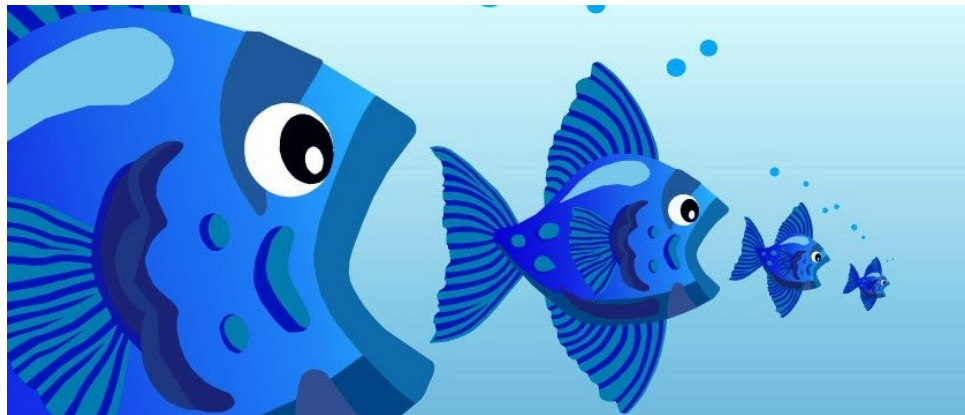


SVO. The reasons for success #1

- Be familiar with the science your national community produces.
- Spanish Astronomical Society: 800 members
- Which are the most relevant projects?
- Which are their scientific objectives? Can they benefit from using VO? If so, sell the product.
 - With VO you will be able to do your science in a better / more efficient way.
 - And, perhaps, with VO you'll be able to tackle research lines that cannot be addressed outside VO.
 - Development is not even necessary: VO-tools are already out there.

SVO. The reasons for success #2

- Take part in large, international consortia.
 - VO expertise is your main strength (there are not many VO experts in the world).



Euro-VO --> ASTERICS,
ESCAPE

CARMENES

Gaia

Gaia-ESO

J-PLUS / J-PAS

Euclid,...

SVO. The reasons for success #3

- Give the community what they really want.

A&A 492, 277–287 (2008)
DOI: 10.1051/0004-6361:200810395
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Astronomy
&
Astrophysics

VOSA: virtual observatory SED analyzer

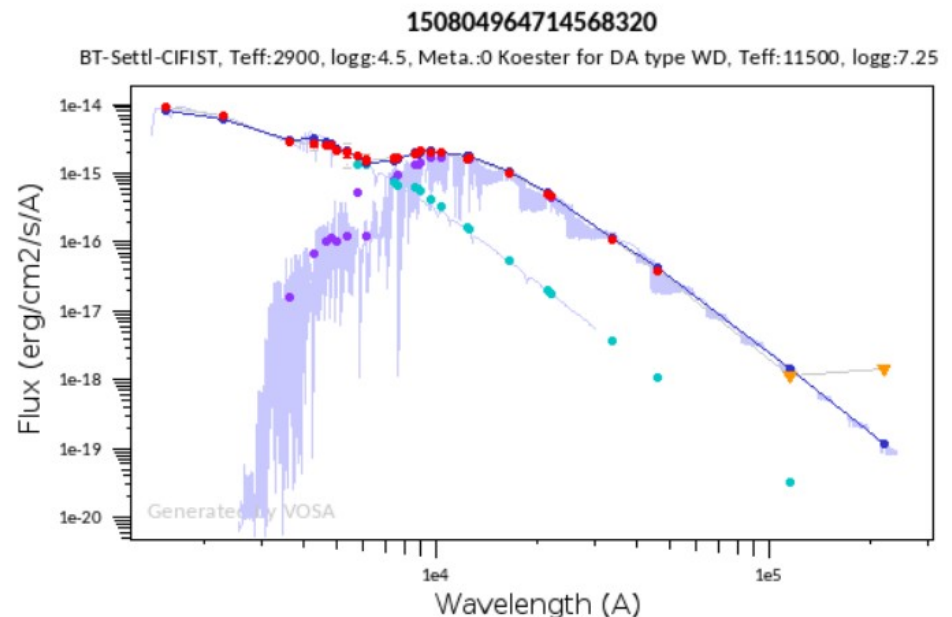
An application to the Collinder 69 open cluster*

A. Bayo^{1,2}, C. Rodrigo^{1,2}, D. Barrado y Navascués^{1,2}, E. Solano^{1,2}, R. Gutiérrez^{1,2},
M. Morales-Calderón¹, and F. Allard³

> 3000 users

12M objects

250 refereed papers



SVO. The reasons for success #4

- Training.

Escuelas SVO

- XXI Escuela SVO (V Virtual VO School). Programas de Máster y Doctorado en Astrofísica. Octubre y diciembre 2021
- XX Escuela SVO (IV Virtual VO school). Federación de Asociaciones Astronómicas de España. Noviembre 2021
- XIX Escuela SVO (III Virtual VO School). Sociedade Astronômica Brasileira.
- XVIII Escuela SVO (II Virtual VO School). Universidad Autónoma de Madrid.
- XVII Escuela SVO (I Virtual VO School). Universidad Complutense de Madrid
- XVI Escuela SVO. Instituto de Astrofísica de Andalucía. Marzo 2020 (postponed)
- XV Escuela SVO. Universidad Autónoma de Madrid. Febrero 2020
- XIV Escuela SVO. Universidad Complutense de Madrid. Noviembre 2019
- XIII Escuela SVO. Universidad Complutense de Madrid. Febrero 2019
- XII Escuela SVO. Universidad Autónoma de Madrid. Noviembre 2018
- XI Escuela SVO. Centro de Astrobiología (Torrejón, Madrid). Mayo 2018
- X Escuela SVO. La Laguna. Marzo 2017
- IX Escuela SVO. Bilbao. July 19, 2016
- VIII Escuela SVO. Madrid. November 25-26, 2014
- VII Escuela SVO. Teruel 10 septiembre 2014
- VI Escuela SVO. Valencia 2-3 julio 2014
- V Escuela SVO. Santander 11-12 junio 2014.
- IV Escuela SVO. Barcelona. 18-19 noviembre, 2010
- III Escuela SVO. Madrid. 8-9 junio, 2010
- II Escuela SVO. La Laguna, Marzo, 2010
- I Escuela SVO. Granada, Octubre, 2009

