

VIRTUAL ASTRONOMICAL OBSERVATORY

Iris v2.0

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The VAO is operated by the VAO, LLC.







Iris features summary

SED Builder

- Load SED Segments from File, URL
- Add/Edit/Save/Delete:
 - Photometry Points
 - Photometry Catalogs
 - Entire SEDs, Spectra
- · Import non-compliant user files from many different formats
- Integrated client for NED SED service
- SAMP I/O with SED message extension

SED Viewer

- Metadata Filtering through user defined boolean expressions or interactive selection
- Display single point metadata in tree format
- Interactive Aperture Correction

Fitting Tool

- Arbitrarily combine model components in different spectral ranges
- Compute confidence intervals for best fit parameters
- Template Fitting



Meeting fluid requirements

Iris components stack

• Builds up a high-cross-section stack of tools, hiding the standards implementation layer from the science layer, in a loosely coupled extensible architecture

Science capabilities

Iris Components: Builder, Viewer, Fitting Tool, Plugins



ASDC+NED embedded clients







Omar Laurino - SAO/CfA - VAO

Interpolation (+coplot)

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Integrated fluxes

●	notometry Filter Selector
Photometry Filters by Facility	Search
V 🚞 2MASS	By String:
2 MASS.H	
2 MASS.J	Clear Search
AKARI	
E CAHA	Description: 2MASS Ks
▶ 🚞 CFHT	Pandi Ke
▶ 🚞 СТЮ	Dallu. KS
	Instrument:
	Eacility 2MASS
Gemini	Facility: ZMASS
🕨 🚞 Generic	Wavelength
▶ 🚞 Geneva	Min: 10542-001
▶ 🔲 HST	Min: 19545.691
Herschel Hipparcos	Max: 23552.4
	Angstrom
▶ 🚞 INT	Mean: 21590.0
▶ 🚞 IRAS	Eff: 21590.0
▶ 🚞 ISO	
	Done
You can select multiple filters.	
Transmission curves for the filt	ters will be downloaded in a local cache,











Release v2.0

- Update documentation
- Release candidate: http://cxc.cfa.harvard.edu/contrib/sed/

Maintenance

- VAO is dropping science applications development, this is the final VAO Iris release
- Under VAO we will fix significant bugs

Post 2.0

- SAO is willing to take over, if possible
- SAO is willing to provide SED, Spectral reference implementations, but we need more mature technologies, also to save time and resources (e.g. UTYPEs/VO-DML)

Plugins are still supported!

- Assessing possible stellar SED modeling toolkit plugin
- Ongoing collaboration with ASDC for Blazar Analysis plugin

