



POLLUX

Type

AA-AN05

Coordination

OREME Eric SERVAT ana.palacios@umontpellier.fr

Partenaires

OMP Catherine JEANDEL

Description

POLLUX is a stellar spectra database proposing access to theoretical data. High resolution synthetic spectra have been computed using the best available 1-D models of atmosphere (CMFGEN, ATLAS MARCS and PHOENIX), performant spectral synthesis codes (CMF_FLUX,SYNSPEC and TURBOSPECTRUM) and atomic linelists from VALD database and specific molecular linelists for cool stars. 3-D spectra medium and high-resolution spectra computed with OPTIM3D and based on STAGGER 3-D RHD model atmospheres are also distributed. Spectral types from O to M, and Wolf-Rayet, are represented for a large set of parameters : T_{eff} , $\log g$, $[\text{Fe}/\text{H}]$, specific abundances . While most of spectra are only available in the optical spectral range, extension in the UV and IR spectral domains are also made available for some collections. POLLUX is a VO-compliant database. Through a webinterface it provides direct visualisation, formatted download and the possibility to convolve parts of each spectra on the fly using the VO-registered SPECONVOL service.