

## OAG-SVO Star Analyser Spectroscopic Data Base SASDABA Pro-Am Project

### Newsletter nº6: October 2021

Dear colleagues,

**SASDABA** project (Star Analyser Spectroscopic **DA**tA**BA**se) is a set of spectroscopic images of about 2000 bright stars from both hemispheres developed by the Pro-Am team. It is based in the [Virtual Spanish Observatory](#) (CSIC-CAB-INTA), and [the Garraf Astronomical Observatory](#) (OAG) in Spain. The project aims to provide raw data from original observations to be used in basic spectroscopic studies by students, teachers and amateur astronomers.

To this date (last update October 2, 2021), SASDABA has 4119 observations from 1741 bright stars with declinations between +90° and -90°. The total observed nights are 337, gathered in 7952 files (.fit, .avi+txt) with a total of 123GB. Active observers in the period between June 2021 and September 2021 are *A.Castro, L.Ribé, J.J.Pueyo and T. Tobal* for the Northern Hemisphere, *S.Keer, C.Ryan and J.West* for the Southern Hemisphere (Astronomical Association of Queensland). The Spanish Virtual Observatory team is coordinated by *E.Solano and A.García*, who updated the [SASDABA](#) on-line interface and database. The aperture telescope range is from 80mm to 400mm, equipped with Star Analyser 100/200, Alpy600, LHIRE-III and DADOS spectrographs. The dispersion range is from 1.5Å to 22Å / pix. SASDABA has exponentially increased the number of images with resolutions lower than 6Å. This implies a greater capacity for practice and analysis.

The zones between Declinations +90° to -30° have been fully covered. Observers located in Australia contributed to covering large regions in the south of Declination -30°. The current status of the Survey (54 Harvard Plates) is as follows: 100% covered Charts = 36, 90% -99% covered Charts = 1, 10% - 89% covered Charts = 14, 00% covered Charts = 3. The 66,6% of Survey has been completed. The updated status and development of the project can be accessed in detail on the OAG and SASDABA websites. Given the current pace of contributions, the project is expected to be completed by the end of 2022. The next SASDABA online database will be updated in February 2022.

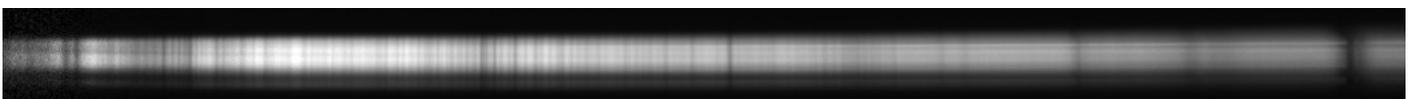
The coordination greatly appreciates the work and time dedicated by different members of this project, inspired by the spectroscopic classic works of the HD Catalog, modern lectures and Pro-Am programs. On October 28, 2021, the first public presentation of the project will take place in the virtual Pro-Am RTAA-2021 Meeting, organized by the [Société d'Astronomie Populaire de la Côte Basque \(SAPCB\)](#). The SASDABA coordination is currently organizing various workshops to be held during the first quarter of 2022. We are currently looking for collaborators willing to take their own images. The standard recommended instrument is a telescope with a diameter between 200 and 300 mm, and a Star Analyser 100-200 L/mm diffraction grating (or similar) or spectrographs. Coordinators will provide the survey cartography of the region of the sky to be observed, so we can maximize efforts and avoid unnecessary repetition. Coordinators may help and answer any questions about the method and technique to those who are starting this sort of observations. The tutorial document (SASDABA\_Readme\_v5) and a new SASDABA QUICK GUIDE 2021 is available in OAG and SASDABA websites.

Please do not hesitate to contact us if you wish to receive further information, or collaborate with the project, any new insights are much appreciated.

Coordination contact: [informacioag@gmail.net](mailto:informacioag@gmail.net)

Web SVO-SASDABA: <https://sdc.cab.inta-csic.es/sasdaba/>

Web OAG: [www.oagarraf.net](http://www.oagarraf.net)



*Spectra of HD 32887 ( $\epsilon$  Lep, K4-III), by J.J.Pueyo (Spain) with SC-8" + Alpy600, free available in SASDABA*

October 2021

© Publication of Garraf Astronomical Observatory