During the last years our group have undertaken several high resolution spectroscopic surveys of nearby FGK + M stars with different spectrographs (FOCES, SARG, SOFIE, FIES, HERMES). A large number of stars have been already observed and we have already determined spectral types, rotational velocities (vsinI) as well as radial velocities (Vr). Lithium abundance and several chromospheric activity indicators. We are now working in a homogeneous determination of the fundamental stellar parameters (T eff, log g, and [Fe/H]) and chemical abundance analysis of all these stars. Some fully reduced spectra in FITS format have been available via ftp and in the World Wide Web by Montes et al. (1997, 1998, and 1999) and some particular spectral regions of the echelle spectra are available at Visión by López-Santiago et al. (2010). We are now making it made accessible all the spectra of our different surveys in a Virtual Observatory (VO) compliant library and database accessible using a common web interface following the standards of the International Virtual Observatory Alliance (IVOA). The spectral library includes F, G, K and M field stars, from dwarfs to giants. The spectral coverage is from 3800 to 10000 Å, with spectral resolution ranging from 40000 to 80000. The database will provide in addition the stellar parameters determined for these spectra.

Abstract

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