ID de Contribution: **12** Type: **Non spécifié**

Spectra in the Virtual Observatory —From Under Both Hats

vendredi 27 mars 2026 10:00 (15 minutes)

The Virtual Observatory (VO) is often viewed by astronomers as a tool for convenient handling of large catalogues and imaging surveys, with cross-matching across electromagnetic and astroparticle domains as its key feature. Yet, although spectroscopy provides much of our understanding of celestial objects, spectral data management in the VO remains suboptimal and its full capabilities are underused. One of today's main research drivers —high-precision radial velocity analysis for exoplanet detection - still takes place largely outside the VO due to missing standards and suitable tools. Wearing several hats of researchers from different astrophysical fields, we will first envision the requirements for an ideal VO-compatible spectral analysis environment. Then, putting on the hat of a spectra provider, we will discuss what can already be achieved on the VO spectra server side without developing new protocols, data formats, or server functionalities, showing that many scientific needs can be met with a little effort using the existing tools.

Orateur: SKODA, Petr (Astronomical Institute Czech Academy of Sciences)

Classification de Session: Welcome and Logistics