

Automated stellar spectra parametrization in the Gaia era

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The European Space Agency Gaia mission has revolutionized our vision of the Milky Way. One of the keys of its success is the high number statistics of the Gaia observational database, including 33 million stellar spectra in the last data release. In this talk I will present the Gaia automated analysis framework and its necessary numerical investments. In addition, the synergy of the produced catalogues with numerical and cosmological simulations will also be discussed. Finally, the future increase of the Gaia and other world-wide spectroscopic databases of Galactic stellar populations, approaching 100 million spectra in 2030, will be presented.