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## **Modelling exoplanet atmospheres to interpret GIANO observations**

*Tuesday, 5 May 2020 14:30 (15 minutes)*

Near-infrared high-resolution spectroscopy relies on cross correlation with model spectra to extract information about the chemical and physical conditions of exoplanet atmospheres. In this talk I will review recent efforts to identify the most reliable molecular line lists applicable to simulate the high temperatures of extrasolar planets. Furthermore, I will explain how GIANO could be used to detect transmission spectra of cloudy exoplanets and distinguish cloudy atmospheres from atmospheres with a high metallicity, currently challenging at low spectral resolution.

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