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A modern view on giant exoplanet interiors

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We are at a unique time to study giant exoplanets. With more than 5000 exoplanets found and facilities like JWST that provide unprecedented data on their atmospheres, we moved from an era of discovery to an era of exoplanet characterisation. On the other hand, extremely accurate measurements by Juno and Cassini missions, make this an exceptional time to combine the detailed information on the solar system's giant planets and the large amount of data from exoplanets to get a better understanding of planetary physics and a better comprehension on planet formation and evolution. Because the giant planets in our solar system are and will remain to be the touchstone to understanding the detailed processes that happen in these worlds, in this talk I will present my recent study on the amount and distribution of heavy elements in Jupiter's interior and I will also discuss the implication of this study on giant exoplanets, presenting some unpublished work towards a better characterisation of giant exoplanet interiors using JWST data.