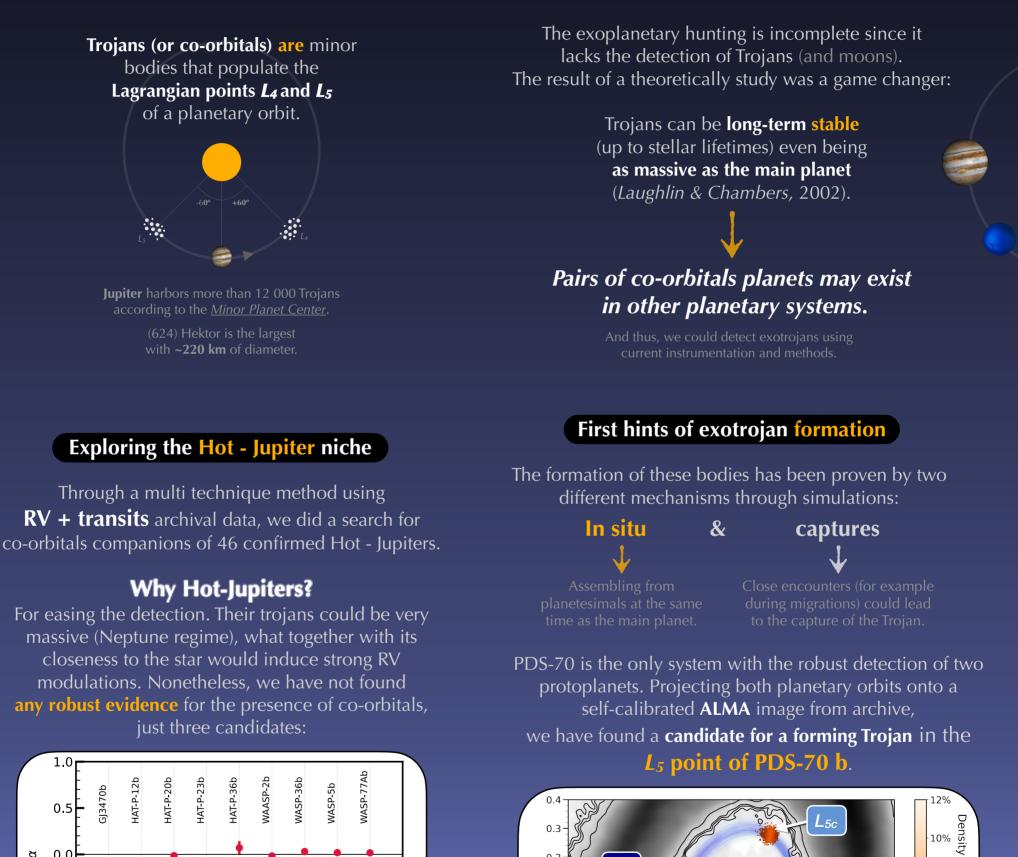
Towards completing extrasolar systems with the **TROY** project

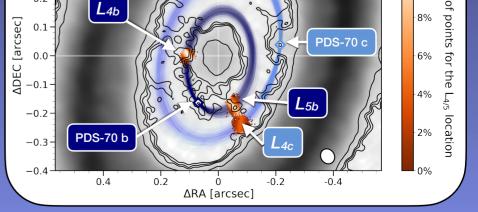
O. Balsalobre-Ruza¹, J. Lillo-Box¹, I. de Gregorio-Monsalvo², N. Huélamo¹

The TROY project aims at detecting and constraining the presence of co-orbital bodies in extrasolar systems. Co-orbitals do exist in the Solar System in the form of small asteroids trapped in the Lagrangian points of six out of the eight planets. However, planet formation theories allow their formation up to planetary sizes and dynamical stability confirms these 1:1 resonances are indeed stable in the long-term. Exploring these configurations has remained in the to-do list of the exoplanet exploration. With the TROY project we aim at filling this gap from an observational point of view with strong implications in planet formation and evolution.





A possible explanation is that during the inwards



Balsalobre-Ruza et al., submitted

A tentative detection with 4σ of significance corresponding with a dust mass up to 0.8 M_{Moon}.



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