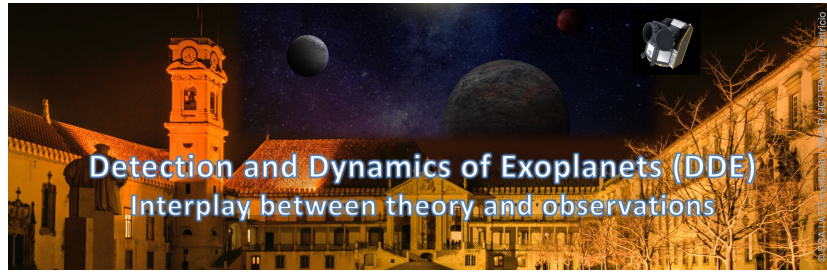


Detection and Dynamics of Exoplanets (DDE): Interplay between theory and observations



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Targeting binary systems in the search for exoplanets with direct imaging

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In the coming months, the first programmable liquid-crystal active coronagraph imager will begin operations at the DAO telescope (PLACID; Tandon et al. 2024). This instrument will potentially expand the capabilities for imaging planets and discs in complex environments, such as multiple star systems. This poster presents the framework of an observational program aimed at detecting planets and discs around binaries with PLACID. We outline the scientific motivations, observational strategies, and target selection criteria. This project will contribute to a deeper understanding of how stellar multiplicity shapes planet formation and the diversity of planetary systems, while also providing an opportunity to test and advance new instrumental techniques.

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