

Title: Studies of Binary Star Interaction

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Keywords indicating research areas (e.g. stars): stars: binary stars

Project abstract (less than 500 words)

The study of close binaries at interaction stages is important to understand mechanisms of mass exchange and mass loss and the overall evolution of the angular momentum in binary systems. Several details of these processes remain unknown, but are important to determine the outcome of binary evolution and to understand several stellar populations. In this project key targets will be selected to be studied with interferometric techniques and high-resolution optical and infrared spectroscopy. We will test current paradigms of binary star evolution determining important constraints for processes of mass loss during stages of interaction.