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# CHARA imaging survey of Herbig Ae/Be stars

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## Abstract

Combining the light from all six CHARA telescopes simultaneously, the MIRC-X and MYSTIC instruments achieve the image sharpness of a 330m telescope and have been built to image time-variable structures in the inner region of protoplanetary discs. In this talk, we will summarise our observing campaign on Herbig Ae/Be stars and present infrared interferometric images obtained from the dust sublimation zone, where the disc undergoes a dramatic transition from a dust+gas composition to a purely gaseous disc. Our survey is uniquely suited to search for planet-induced structures in the inner few astronomical units of these discs. For some objects, we detect temporal variability and are producing first movies of the inner disk environment. We co-schedule our MIRC-X runs with photometric/spectroscopic monitoring, with the goal to link accretion rate variations or occultation events to structural changes in the inner disc. We will highlight potential synergies with the GRAVITY+ survey on young stars.

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