

The formation and long-term evolution of circumbinary planetary systems across the H-R diagram

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Observations of circumbinary discs and their alignment across a range of stellar populations

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Circumbinary planets form from material in protoplanetary disks. Therefore it is reasonable to expect that planets would inherit their orbits from the distribution of this material, at least in a broad and initial sense. In this talk, I will review observations of circumbinary material across stellar ages: from the earliest protostellar and class 0/I systems, through the “classic” class II protoplanetary disks orbiting pre-main sequence stars, to circumbinary debris disks orbiting main sequence stars. I will cover the diverse means by which these circumbinary systems are observed with a special focus on how the mutual inclination between the stellar and disk planes is calculated and the ambiguities that may result.

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