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Circumbinary protoplanetary disks and circumbinary planet formation

Our current understanding of planet formation has had an anthropological bias towards formation around single star. However two thirds of solar type stars are formed in binary systems and, to date, 11 circumbinary planets have been discovered around main sequence binaries. Over the course of my PhD I plan to investigate the formation of circumbinary planets by gaining a better understanding on the circumbinary disks from which they should form. Here I highlight some of the projects I have planned to study the lifetime, formation and stability of such disks.