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Gravitational Instability and Substructure in Protoplanetary Discs

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In the ALMA era of observational astronomy, we are availed of a plethora of spatially resolved images of protoplanetary discs, the site of exoplanet formation. At the earliest stages of the disc lifetime, it is likely that these objects are very massive, and therefore undergo evolution primarily driven through gravitational instability. I will talk about what this means for detections and planet formation from a simulation point of view, and highlight some recent results and predictions in the field.