

Dust dynamics in protoplanetary disks coupled to grain growth

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In this project, we will explore the dynamics of dust particles and the possibility of ring formation due to gas drag. Student will learn dust dynamics in a protoplanetary disk. By coupling the grain coagulation growth in a polydisperse dust fluid, we will study the evolution of grain size distribution as function of time and position in the disk. This will have consequences on structure formation within the disk and eventually lead to planet formation. The student is expected to work full-time during the two-month project, participate in all group activities, and attend seminars on related topics.