

## **Dynamical modelling of debris disks**

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I will present a new numerical method aimed at modelling the dynamical evolution of Poynting-Robertson drag dominated debris disks interacting with one or more planets. Unlike other approaches, our model employs the so-called Hermite scheme for particle integration, an algorithm widely used in the N-body community. I will discuss advantages and disadvantages of this integration scheme and compare it to other methods. Example runs will be shown to demonstrate the validity and performance of the model. Finally, I will discuss open issues and further developments of the code.