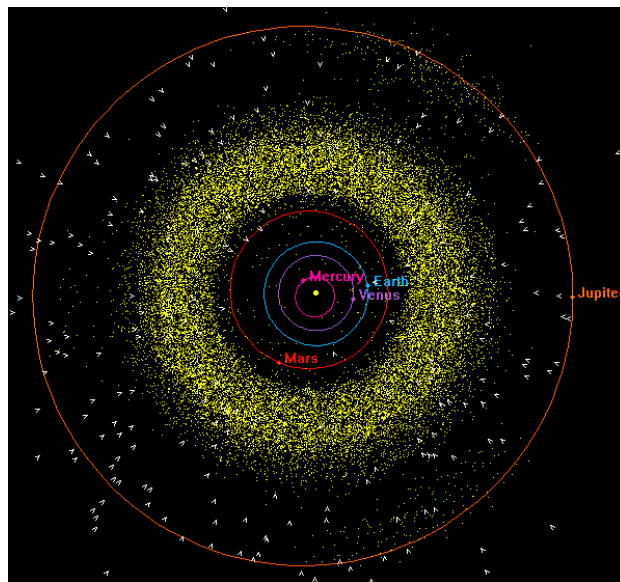


The SUMO Speaker Series for Undergraduates

Thursday, March 31
4:30 – 5:20pm, Bldg. 380, room 384H

(Food Provided)

The fast multipole method



Professor Lexing Ying

Abstract

The fast multipole method (FMM) is a numerical algorithm for the N -body problem; i.e., evaluating the pairwise interaction between a large number of particles. It was ranked as one of the top ten algorithms of the 20th century and finds a wide range of applications in electromagnetics, astrophysics, statistics, etc. This talk will give a geometric introduction to the key ideas of the FMM.

sumo.stanford.edu/speakers/