**Pd-010** Room: C310 Time: June 9 11:00-11:12

## Formation of Protoplanets in the Region of Terrestrial Planets

# Kouji Shiidsuka [1], Shigeru Ida [2]

[1] Earth and Planetary Sci., Tokyo Institute of Technology, [2] Dept. of Earth and Planetary Sci., Tokyo Inst. of Tech.

Formation and Evolution of protoplanets from planetesimal swarm embeded in the protoplanetary solar nebula is investigated, by three-dimensional N-body simulation. Initially, the planetesimal swarm is distributed grobally (0.5-1.5AU), in contrast to the local simulation by Kokubo & Ida (1998,1999), so that difference of formation timescale of protoplanets along semi-major axis is clearly seen. Finally, about 15 Mars-sized protoplanets are formed through runaway growth. The difference of semi-major axis between neghboring protoplanets are about 10 Hill radius, which agrees with the local simulation.