CASTS TALKS

2012 Special Program in Applied

Mathematics and Applied Mechanics

Interaction between two solid spheres/cylinders when one approaches the other in a viscous or a potential fluid

2012 - 04 - 25 (Wed.)

15:00 - 17:00

308, Mathematics Research Center Building (ori. New Math. Bldg.)

The hydrodynamic interaction between immersed solid objects has been a research topic for many decades for its important role in fundamental fluid mechanics theory and various industrial applications. This talk will present some recent experimental findings on the hydrodynamic coupling between two identical immersed solid spheres when one moved unsteadily towards the other. The resulting flow motion will be discussed using existing knowledge of theoretical models for viscous and potential flows.