

2014 CMMSC Short Course : Some Applications of Mathematics to Soft Matter

Lecturer

Prof. Eliot Fried

(Okinawa Institute of Science and Technology Graduate University)

Venue

Room 307, Science Building 1, National Chiao Tung University
(交通大學科學一館307室)

Schedule

Dec. 3 (Wednesday) 14:00-16:00pm

- (I) Stability of discoidal high-density lipoprotein particles
- (II) Slender-body theory via dimensional reduction and hyperviscous regularization

Dec. 4 (Thursday) 14:00-16:00pm

- (III) Self-propelled soft-core dumbbells for active suspensions
- (IV) Isometric mappings of the plane into surfaces in three-dimensional space and the energetics of ribbons and bands