The Complexity of Dynamics and Kinetics from Single Molecules to Cells

Date: 2019 6/15(Sat) ~ 6/20(Thu)

Meeting place: Telluride Intermediate School, 725 West Colorado Ave, Telluride CO 81435

6/15(Sat)

6-8 pm at the Phoenix Bean for greeting to each other with beers (just come and join)

6/16(Sun)

7:30- 8:30 Breakfast served at school

Opening Remark

8:30- 9:30 Berry, R. Stephen, TBA

9:30-10:30 Hernandez, Rigoberto, "Dynamical Consistency in Sustainable Nanoparticles”

10:40-11:40 Ishii, Kunihiko, "Multivariate photon correlation analysis of single-molecule FRET data"

11:40-12:40 Morozov, Alexandre, "Bayesian exploration of complex networks and landscapes by random walks"

Afternoon Hike

18:30- Group Dinner at Rustico

6/17(Mon)

7:30- 8:30 Breakfast served at school

8:30- 9:30 Komatsuzaki, Tamiki, “Raman pathology and its phenotypic landscape for Non-alcoholic fatty liver diseases”

9:30-10:30 Ritchie, Kenneth, TBA

10:40-11:40 Comstock, Matt, TBA

11:40-12:40 Mukherji, Shankar, TBA

6/18(Tue)

7:30- 8:30 Breakfast served at school

8:30- 9:30 Fujita, Katsumasa, TBA

9:30-10:30 Pressé, Steve,” Unraveling life, a few photons at a time”

10:40-11:40 Makarov, Dmitrii, "Transition paths in molecular motors, enzymes, channels and other nonequilibrium systems”

11:40-12:40 Lee, Julian, "Hydrodynamics interaction facilitates the unsteady transport of neighboring vesicles"

Afternoon Hike

18:30-19:15 town talk at the Conference Center in Mountain Village

(subject: coral reefs)

Featured Speaker: Forest Rohwer, San Diego State University

6/19(Wed)

7:30- 8:30 Breakfast served at school

8:30- 9:30 Shepherd, Douglas, TBA

9:30-10:30 Thompson, Ward, “Removing the barrier to the calculation of activation energies”

10:40-11:40 Munsky, Brian, "Computational design and interpretation of single-gene transcription and single-RNA translation experiments"

11:40 Group Photo

13:00-14:00 Chaudhury, Srabanti, “Theoretical approaches to characterize and quantify fluctuations in single molecule enzyme kinetics”

14:00-15:00 Clément, Jean-Emmanuel, "Reflection about Surface Enhanced Raman Spectroscopy"

15:00-16:00 Wiggins, Paul, TBA

18:00- Picnic in the tent behind the Intermediate School (725 West Colorado Ave)

6/20(Thu)

7:30- 8:30 Breakfast served at school

8:30- 10:30 Open Discussions

Closing remarks