Scientific Background

This workshop will focus on current trends in mathematical theories of kinetic descriptions—the interplay between modeling, analysis and computation, with various applications in physical, biological and social sciences. Starting with classical theories for collisional transport, topics to be covered in this workshop range from deterministic and stochastic mean-field descriptions of plasma, material, gasdynamics, … and emerging behavior in collective dynamics of active matter, to numerics, UQ and multiscale analysis of the interactions between macro- and microscopic scales.

Goals

The goal of this conference is to bring together young researchers working on current trends in mathematical theories of kinetic descriptions—modeling, analysis and computation—with various applications in physical, biological and social sciences. This will be the sixth in the series of Young Researcher Workshops (YRWs) hosted by Ki-Net.

A limited number of openings are available. To apply, complete the online application before August 31, 2017.

For more information and to apply:
www.ki-net.umd.edu