

21COE 物質階層融合科学セミナー  
物性コロキウム

日時： 6月30日(木) 16:30 - 18:00

場所： 理学部 理学総合棟 745号室(大学院講義室I)

講師： Xue-Feng Yuan (Manchester Interdisciplinary Biocentre,  
The University of Manchester・21世紀COE客員教授)

題目： Towards Quantitative Biorheology: Characterization and  
Modelling of Biofluids and Biomaterials

要旨： In the human body, blood, mucin, synovial fluids, cells, tissues and organs, carry out many important functions. Those complex biofluids and soft biomaterials exhibit a hierarchy of the characteristic length scales corresponding to the relevant microscopic structures. The biofluids usually show non-Newtonian behaviour as their characteristic relaxation times are much longer than those of simple liquids. Their dynamic processes in various length and time scales are usually strongly correlated. A good understanding of the relationships between rheological properties and microstructural evolution of complex fluids/soft matter can provide great insight towards a predictive rheology of complex biofluids and soft biomaterials. It provides an exciting arena for the integration of fundamental concepts, theoretical methods and experimental techniques from a variety of scientific disciplines including physics and engineering, material science, chemistry and biology. I will present our recent progress in this talk.

連絡先： 川勝年洋 (217-6438)

16:15 よりコーヒー、紅茶、お菓子を用意します。

世話人： 高橋 隆 (217-6417) 中島龍也 (217-6441)  
松井広志 (217-6604) 内田就也 (217-7756)