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### **Molecular Simulation Studies of Condensed Phase : Quantum and Classical Approaches for Reaction Systems and miscellaneous**

In this seminar, I will talk about some molecular simulation studies of condensed phase systems. In particular, I present a study of proton transfer reaction in solution based on mixed quantum-classical approximation and show reaction quantum dynamics picture as well as quantum and solvent effects. I also briefly present some miscellaneous simulation studies of exciton dynamics on polymer and very large scale all-atom simulation of virus in solution, ... .