

**Report on the activities of Andrzej Patrykiewicz during his visit to the Institute of  
Condensed Matter of Ukrainian Academy of Sciences in Lviv.**

22.02-21.03.2014

During the visit in Lviv 22.02-21.03.2014 A. Patrykiewicz has continued the work with J. Ilnytsky on the problem of the flow of oligomeric fluids through slit-like pores decorated with polymeric brushes.

They have developed algorithms for the analysis of results and performed suitable calculations.

Also, they have prepared the draft version of the paper devoted to the flow of Simple and complex (oligomeric) fluids through pores with tethered polymer brushes.

A. Patrykiewicz has also been involved in the continuation of collaboration with A. Trokhymchuk on the behavior of fluids of particles interacting via complex potentials.

He has presented a seminar on the impurity driven commensurate-incommensurate transitions in two-dimensional nanoscopic systems.