

SoftSimu2002 - Novel methods in soft matter simulations

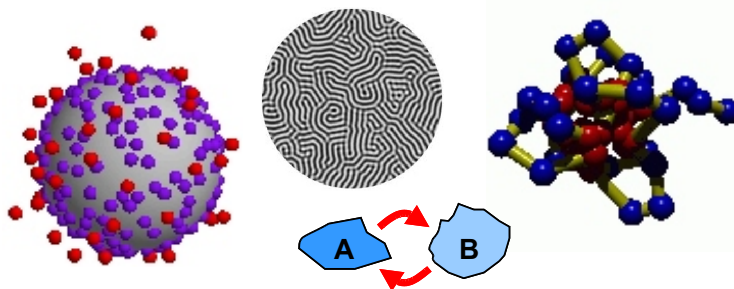
International Summer School, May 31 - June 6, 2002 Helsinki/Espoo, Finland

Organizers:

Mikko Karttunen, Helsinki

Ilpo Vattulainen, Helsinki

Ari Lukkarinen, Helsinki



SoftSimu2002 focuses on novel computer simulation techniques proposed for, and used in, studies of complex molecules and soft matter systems. Examples of these methods include the Dissipative Particle Dynamics, the Malevanets-Kapral method, Smoothed Particle Hydrodynamics, and phase field modeling. Further topics include hybrid methods, hydrodynamics, and electrostatics. A closely related topic of coarse-graining in time and space will be given plenty of attention during the school.

Currently, there are no textbooks that cover these ideas & methods. SoftSimu2002 aims to fill that gap, and to provide a good starting point for graduate students and young researchers who wish to apply them for large-scale studies of soft matter systems.

Format of the School: SoftSimu2002 aims to provide the participants with a concise statistical mechanics description of the methods. The analytical approach is complemented with daily hands-on computer exercises.

Email: softsimu2002@lce.hut.fi

WWW: www.lce.hut.fi/research/polymer/softsimu2002/

Important dates: Application deadline: February 22, 2002

Invited speakers:

Giovanni Ciccotti, Rome

Pep Espanol, Madrid

Rob Groot, Vlaardigen

Andre Moreira, Santa Barbara

Eirik Flekkoy, Oslo

Tapio Ala-Nissila, Helsinki

Raymond Kapral, Toronto

Florian Müller-Plathe, Mainz

Ignacio Pagonabarraga, Barcelona

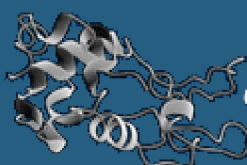
Chris Lowe, Delft

Aatto Laaksonen, Stockholm

Alexander Lyubartsev, Stockholm

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Simu



**Challenges in
Molecular Simulations**