Centre of Excellence “Mesosystems: Theory and applications”

WORKSHOP

Lattice solitons and irradiation-induced nonlinear phenomena in solids

31 October - 2 November 2012

Institute of Physics, University of Tartu,
Riia 142, Tartu, Estonia

Session on 31 October, 11:00-13:00, Institute of Physics, Riia 142, room 108

1. V. Hizhnyakov (University of Tartu, Institute of Physics, Estonia):
Modelling of intrinsic localized modes and defects creation by atomic impact in ionic crystals

2. V. Dubinko (Kharkov Institute of Physics & Technology, Ukraine):
Modification of reaction rates under irradiation of crystalline solids: contribution from intrinsic localized modes

3. J. Archilla (Universidad de Sevilla, Spain):
Supersonic solitons and kinks in repulsive lattices

31 October evening and 1-2 November:
Informal discussions of algorithms of MD simulations of nonlinear dynamics in solids.
To participate in discussions please contact the organizer of the workshop Vladimir Hizhnyakov (hizh@fi.tartu.ee, tel. +372 737 4759).

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