Contribution ID: 155

COMPUTER SIMULATION OF CLUSTER FORMATION PROCESSES BY THE MOLECULAR DYNAMICS METHOD WITH USING THE BARNES-HUT ALGORITHM

It was investigated the cluster formation processes into ferrofluids for great magnetic nanoparticles ensembles. It was shown that such processes depend on magnetic field magnitude and magnetic field application time.

Primary authors: Mr MATSKEVYCH, Dmytro (Taras Shevchenko National University of Kyiv); Mr VOSHCHIN-SKIY, Viktor (Taras Shevchenko National University of Kyiv); Mrs ZBOROVSKA, Ilona (Taras Shevchenko National University of Kyiv); Mr SHULYMA, Serhii (Taras Shevchenko National University of Kyiv); Mr TANYGIN, Bogdan (Infopulse Ukraine)

Presenter: Mr MATSKEVYCH, Dmytro (Taras Shevchenko National University of Kyiv)

Track Classification: Magnetism and Superconductivity