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Joint ICTP-IAEA Workshop on Physics of Radiation Effect and its Simulation for Non-Metallic Condensed Matter | (smr 2359)

Monday 20 August 2012

SSwift heavy ion irradiation of nanostructured materials - Adriatico Guest House Giambiagi Lecture Hall (15:00-16:00)

High energy heavy ion irradiation is a powerful tool for modification of semiconductor and metallic nanoparticles in oxide matrixes as well as oxide particles in metallic materials. In first part of this talk, swift heavy ion-induced changes in structure, electrical and optical properties of Si and Ge nanoclusters in SiO₂ layers are discussed. Second part of presentation is devoted to microstructural examination of nanostructured ceramics and oxide particles in oxide dispersion strengthened alloys irradiated in the electronic stopping regime.

time	title	presenter
15:00	SSwift heavy ion irradiation of nanostructured materials	VLADIMIR SKURATOV