

Table of contents

Monday 20 August 2012	1
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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

Effects of heavy ion irradiation and simulation of fission fragments impact - Adriatico Guest House Giambiagi Lecture Hall (11:30-12:30)

Structural modifications induced by fission products, i.e. atoms with a mass ranging from 80 to 155 and an energy of about 100 MeV, still remain uncertain because the effects cannot be investigated using classical low-energy ion implanters. To date, only limited data concerning the microstructural response of insulators to ion irradiation of fission energy are available and external bombardment with energetic ions offers an unique opportunity to simulate fission fragment-induced damage. In this lecture, an overview of recent experimental results on radiation stability of nuclear ceramics and oxides against high energy ($E > 1 \text{ MeV/amu}$) heavy ion irradiation will be presented.

time	title	presenter
11:30	Effects of heavy ion irradiation and simulation of fission fragments impact	VLADIMIR SKURATOV