Table of contents

i

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

Tuesday 14 August 2012

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Simulation of ion-solid interactions using Binary Collision Approximation - Adriatico Guest House Kastler Lecture Hall (09:00-10:30)

Since computers are becoming larger and faster, the simulation of ion-solid interactions to predict implantation range, ionization profiles, displacement damage, sputtering yield, etc., became an everyday task. In this lecture the different approaches to the simulation will be presented briefly, then the Binary Collision Approximation (BCA) as the mostly used method will be discussed in detail with emphasis on the Marlowe and SRIM computer codes. Examples for the simulation of different phe-nomena will be given.

time	title	presenter
09:00	Simulation of ion-solid interactions using Binary Collision Approximation	GYORGY VIZKELETHY

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Page 1