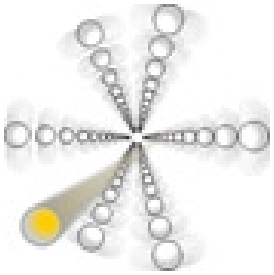

Contribution ID: **90** Type: **not specified**

On Creation and Control of Dielectric Constant Superlattice in Spin-Glass Medium

Thursday, 27 September 2012 19:31 (1 minute)

The formation and governing of periodically modulated refractive index in medium is a most important problem of solid state physics and material science. First of all it is related to the possibility of developing compact UV or X-ray Free-Electron Lasers (FEL) based on emission of transition radiation (TR).
Currently the following two problems are discussed intensely:
a. A gas-plasma medium with periodically varied ionization density,
b. A special periodical solid-state superlattice-like (SSL) structures composed of layers with different refraction indexes.

Primary authors: Prof. MKRTCHYAN, Alpik (Institute of Applied Problems of Physics NAS RA); Dr GEVORKYAN, Ashot (Institute of Informatics and Automation Problems, NAS RA)

Presenter: Dr GEVORKYAN, Ashot (Institute of Informatics and Automation Problems, NAS RA)

Session Classification: PS2 Poster Sesion

Track Classification: Poster Session