



# High Brightness Beams Workshop

## Thursday, 31 March 2016

### Compton sources (08:30 - 10:15)

-Conveners: Luca Serafini

time	[id] title	presenter
08:30	[59] Compton sources for gamma and X-ray applications	VARIOLA, Alessandro
08:55	[60] Advanced topics in the physics of Thomson/Compton scattering	PETRILLO, Vittoria
09:20	[61] The compact X-ray source ThomX	Prof. ZOMER, Fabian
09:45	[62] Drafting a roadmap to gamma colliders driven by mid-IR lasers	Dr POGORELSKY, Igor
10:00	[63] IFEL driven ICS X-ray Source at the ATF at BNL	GADJEV, Ivan

### Compton sources (10:45 - 12:30)

-Conveners: Luca Serafini

time	[id] title	presenter
10:45	[64] Towards industrial X-ray source based on Inverse Compton Scattering	MUROKH, A.
11:10	[65] Phase space analysis of secondary beams generated in hadron-photon collisions	CURATOLO, Camilla
11:25	[66] Channeling of charged particle beams in carbon nanotubes	HERNANDEZ, D.
11:40	[75] Methodology trends on gamma and electron radiation damage simulations studies in solids under high fluency irradiation environments	CRUZ INCLÁN, Carlos M.
12:00	[76] Effects of vacancies on atom displacement threshold energies calculations through Molecular Dynamic Methods in BaTiO <sub>3</sub> with tetragonal crystalline structure	GONZÁLEZ LAZO, Eduardo
12:15	[77] Upgrading attempts of the Monte Carlo Simulation of Atom Displacements, MCSAD, in solids induced by electron and gamma irradiation algorithm under high fluency irradiation environments	RODRÍGUEZ RODRÍGUEZ, Arturo