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Compton backscattering experiments at LOA

Synchrotron-radiation from Compton backscattering of high intensity laser pulses by laser-accelerated electrons holds out the prospect of generating quasi-monochromatic X and Gamma-Ray using medium scale laser facilities.

In this talk we are going to discuss simulations on Compton backscattering for various possible experimental configurations for experiments using the Salle Jaune Laser Facility at Laboratoire d'Optique Appliquée in Palaiseau, France. Furthermore preliminary results from recent experiments on Compton backscattering using a plasma-mirror are presented.

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