

Ion Acceleration

Andrea Macchi, Istituto Nazionale di Ottica, Consiglio Nazionale delle Ricerche (CNR/INO) and University of Pisa, Italy

A short overview on research on laser-plasma ion acceleration and recent related progress will be given. Focus will be put on 1) the scaling of ion energy with laser pulse parameters for short pulse systems, 2) the development of new all-optical methods for beam post-acceleration and control, 3) state-of-the art and perspectives for the advanced scheme of radiation pressure acceleration.