



Contribution ID: 178

Type: Poster

Cooling of ultrarelativistic β and μ particles in laser channels

Tuesday, 27 September 2016 18:40 (0 minutes)

The process of charged particles channeling through potential channels formed by crossed laser beams is described using classical approach and covering the effect of charged particles radiative deceleration in such channels. The way to increase charged particle beam cooling efficiency is present.

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Session Classification: PS2: Poster Session