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PS1-24: Formation Length of Undulator Radiation Emitted by High Energy Electrons

Monday, 6 October 2014 17:00 (1h 30m)

We will report estimation of the formation (interference) length of quantum emitted by the electron passing through the undulator based on statistics of recoils undergone by the electron due to emission of quanta. As it is shown, the number of coherent quanta is inversely proportional to the energy of the electron for a fixed adulator period, and in direct proportion to the undulator for a fixed electron energy.

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