

Japan Charged-Particle Nuclear Reaction Data Group

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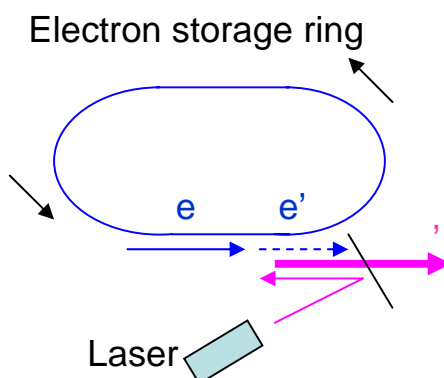
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Memo CP-E/111 (Revised)

Date: January 17, 2007
To: Distribution
From: OTSUKA Naohiko
Subject: Dictionary 19 (Incident source codes) update

Laser Compton backscattered (LCS) photon is a quasi-monoenergetic photon source where the photon beam is obtained by Compton scattering between laser and electron beam. Setup of LCS is schematically shown below. The energy of photon beam γ' obtained in $e+\gamma\rightarrow e'+\gamma'$ is determined by the **incident energies (wave lengths) of electron and laser beams.**



There are two relevant incident source codes, COMPT (Compton scattering) and LASER (Laser scattering), in dictionary 19, and all entries which include these codes are for measurements with Laser Compton scattering photon source (except one entry M0504). Both COMPT and LASER, or one of them have been applied to express this photon source. I would like to propose a new code for Laser Compton scattering photon source and obsolete flags for COMPT and LASER to clarify experimental setup and to decrease compiler dependence.

Dictionary 19 (Incident source codes)

LCS	Laser Compton scattered photons
COMPT	Compton scattering <i>Obsolete</i>
LASER	Laser scattering <i>Obsolete</i>

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