**Nuclear Data Section**

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**Memo CP-D/1004**

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**Subject: Dictionary 19 (Incident sources) – ISOL**

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During checking of PRELIM.O079, I found online isotope separators (ISOL) are coded by OLMS under FACILITY. This is sometimes coded with the primary accelerator (e.g., SYNCH or SYNCY for CERN ISOLDE, CYCLO for IGISOL of Univ. of Jyväskylä), but sometimes not.

We had a similar facility code PRJFS (secondary beam from projectile fragment separator) but decided to replace it with the incident source code FRAGM (fragmentation).

To improve consistency of coding, I propose creation of a new incidence source code ISOL, and use it instead of the facility code OLMS for ISOL type secondary beam production.

ISOL is similar to FRAGM, but usually the reaction (sometimes fission) product produced by ISOL facilities is not fast like fragmentation separators (e.g., GSI FRS, RIKEN RIBF), and the product is sometimes reaccelerated as a secondary beam after ionization.

**Dictionary 19 (Incidence sources)**

ISOL Online isotope separation

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