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**Memo CP-D/483**

**Date:** 13 March 2007  
**To:** Distribution  
**From:** O. Schwerer  
**Subject:** Additions to dictionaries 236 (quantities) and 213 (reaction types)

In charged-particle and heavy-ion induced fission, it is common to give fission product yields as cross sections in units mb rather than as yields in percent per fission.

Such data have been compiled for independent and cumulative cross sections with the existing quantities IND,SIG and CUM,SIG. Now we need to compile also a total chain yield given in mb (see S.S.Rattan et al., J,JRN,242,(2),551,1999), for which the new quantity CHN,SIG is proposed for dictionary 236.

**Addition to dictionary 236:**

CHN,SIG    FYS    CS    Total chain yield cross section for fission products

In order to check for the use of the independent variable MASS, which is governed by a flag in the "reaction type" dictionary 213, we need also:

**Addition to dictionary 213:**

FYS            FY    FY    17    7    Production cross section of fission products

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