

# Japan Charged-Particle Nuclear Reaction Data Group

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## Memo CP-E/008

**Date:** July 11, 2002  
**To:** Distribution  
**From:** KATO Kiyoshi  
**Subject:** Error of total energy in center of mass system (CP-E/007, CP-D/340)

First, I would like to extend my thanks to Schwerer-san for his important comments on our CP-E/007. We discussed the code of C.M. energy error again, and we had conclusion that it will not cause problems to use EN-ERR even for C.M. energy error. And we recommend giving explanation about this usage of EN-ERR on the dictionary 36, for example,

EN-ERR        Uncertainty in Incident Projectile Energy  
                  for monoenergetic incident projectile energy or  
                  for central energy in an incident projectile spectrum.  
                  ***also used for uncertainty of total energy in center of  
                  mass system (EN-CM).***

(Similar explanations may be also needed for E-ERR, ANG-ERR etc. in center of mass system.)

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