

To: **Distribution**  
 From: **F.E. Chukreev**  
 Subject: **Addition to Dictionary 24**

**Add to dictionary 24**

Some publications contains energy in C.-M. System as independent variable. The energy is sum of kinetic energy of incident projectile and target nucleus in C.-M. System.

The connection of the energies:

$$E(\text{cm}) = (M / (M+m)) E(\text{lab}),$$

Where **M** - mass of target nucleus,

**m** - mass of projectile,

**E(lab)** - projectile energy in Lab-system.

A little index the publication, where E(cm) were used:

J,PL/B,462,237,99

J,NP/A,614,238,97

J,NP/A,645,13,99

J,NP/A,596,299,96

J,NP/A,635,305,98

The independent variable is suitable for astrophysical data.  
 We have in Dictionary 24 now only:

**EN-CM Incident Projectile Energy in C.M. System.**

Therefore we would like to include special code for E(cm).

**EN-CM-TOT Sum kinetic energies of projectile and target  
 Nucleus in C.-M. System.**

We can discuss the independent variable during to nearest meeting.

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