

# Instruction for the Frag-Data format files based on JENDL/DEU-2020

Frag-Data format is one defined uniquely in the PHITS code. We developed Frag-Data files almost equivalent to ACE files. In the Frag-Data files base on JENDL/DEU-2020, double differential cross sections (DDXs) for emitted particles (n, p, d, t,  $^3\text{He}$ ,  $\alpha$ ) and  $\gamma$ -ray are stored for transport calculation. Note that the information on the production of residual nuclei are not included.

You can use the Frag-Data files by adding [Frag Data] section to your PHITS input file. The below is an example to use the Frag-Data file for Li-6 target.

```
-----  
[ Frag Data ]  
#opt   proj   targ   file  
5      deuteron 6Li   Li-6-d.dat  
-----
```

opt = 5 is necessary since DDXs are given as point wise data in the preset Frag-Data files. For more details about [Frag Data] section, see the manual of the PHITS code available from the official homepage of PHITS.