Status Report of the Nuclear Structure and Decay Data Evaluation in CNDC

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1. Members

The present members of CNDC group for the evaluation of Nuclear Structure and Decay Data are: Huang Xiaolong and Wang Jimin. Ms. Liu Yangyang (graduate student).

2. Mass Chain Evaluation

The NSDD group in China Nuclear Data Center (CNDC) has permanent responsibility for evaluating and updating NSDD for A=51, 62, 195-198. In recent 2 years, the mass chain A=196 and 197 have been revised using available experimental decay and reaction data. A=197 is in 2nd reviewed. But A=196 is just being evaluated.

A=62 was assigned to CNDC from Jilin University (JLU, China) group in 2011 NSDD meeting. And A=62 was evaluated by Dr. B.Singh et al. in 2012.

The present status is as follows:

Table 1 Status of Mass Chain Evaluation in CNDC

Mass chain A	Status	Evaluators
51	NDS,144,1(2017)	Wang Jimin, Huang Xiaolong
62	NDS, 113, 973 (2012)	B.Singh et al.
195	NDS, 121, 395 (2014)	Huang Xiaolong, Kang Mengxiao
196	NDS,108,1093(2007)	Huang Xiaolong, being evaluated
197	NDS,104,283(2005)	Huang Xiaolong, Wang Jimin, Kang Mengxiao, 2nd review
198	NDS,133,221(2016)	Huang Xiaolong, Kang Mengxiao

3. Decay Data Evaluation

(1) DDEP decay data evaluation

The CNDC group has joined the DDEP decay data evaluation project since 2007.

In recent 2 years, CNDC has updated the main decay data for ^{108m}Ag and ^{110m}Ag nuclides for DDEP decay data evaluation project.

(2) CENDL decay data sublibrary for fission product

To meet the requirements of decay heat calculation, burn-up calculation, analysis neutrino spectra anomaly, the CENDL evaluated nuclear decay data sublibrary for fission products was being developped and constituted based on the several main

national evaluated data libraries in the world. About 1415 nuclides will be included. The decay data sublibrary will be used in decay heat calculation, reactor neutrino spectra analysis and decay chain design needed in fission yield evaluation.