

## 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. Mr. Kang Mengxiao graduated last year and working at Beijing occupational disease hospital. He will not do NSDD evaluation in future.

### 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=51, 196, 197 and 198 have been revised using available experimental decay and reaction data. A=198 was published. A=51, 197 are being reviewed. A=196 is being evaluated.

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

The status is as follows:

Table 1 Status of Mass Chain Evaluation in CNDC

Mass chain A	Status	Evaluators
51	NDS,107,2131(2006)	Wang Jimin, Huang Xiaolong, post review
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, under review
198	NDS,133,221(2016)	Huang Xiaolong, Kang Mengxiao

### 3. Decay Data Evaluation

#### (1) $\beta$ -delayed neutron probability and half-life

The CNDC group has participated the IAEA-CRP for "Reference Database for Beta-Delayed Neutron Emission".

In recent 2 years, the compilation & evaluation of the delayed neutron probability and half-life for Z=51-57 regions has been finished. Two EXCEL files:

Compilation and Adopted Values files were submitted to IAEA-NDS.

**(2) 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  $^{227}\text{Th}$ ,  $^{229}\text{Th}$ ,  $^{230}\text{U}$ ,  $^{233}\text{U}$  nuclides for DDEP decay data evaluation project.