Status Report of Jilin University for the Nuclear Structure and Decay Data Evaluation Yang Dong College of Physics, Jilin University Changchun 130012,China <u>dyang@jlu.edu.cn</u>

1. Members

At present, members of Jilin university (JLU) group include: Huo Junde, Yang Dong, and a postgraduate Hou Kairan. Although Professor Huo Junde has retired, he will continue the evaluation work.

2. Mass Chain Evaluation

Jilin university is responsible for the mass chains: A=52, 53, 54, 55, 56, and 67. In recent two years, the 67 mass chain has been evaluated and submitted by Yang Dong and Huo Junde. The 55 mass chain is being evaluated and references have been collected by Mr. Hou Kairan. The status is as below:

Mass	Last publication	Status
52	Yang Dong, Huo Junde, NDS, 128, 185-314 (2015)	
53	Huo Junde, NDS, 110, 2689-2814 (2009)	
54	Yang Dong, Huo Junde, NDS, 121, 1-142 (2014)	
55	Huo Junde, NDS, 109, 787-942 (2008)	being evaluated
56	Huo Junde, Huo Su, Yang Dong, NDS, 112, 1513-1645 (2011)	
67	Huo Junde, Huang Xiaolong, J.K. Tuli, NDS, 106, 159-250 (2005)	(submitted for review)

3. Other research of the group

High spin states of nuclei by heavy ion fusion evaporation reaction and in-beam spectroscopy on the HI-13 tandem accelerator at China Institute of Atomic Energy:

Candidate chiral doublet bands in ¹³⁸Pm, K. Y. Ma, J. B. Lu,.. D. Yang et al., Physical Review C **97**,014305, 2018;

A development of lifetime measurement based on the differential decay curve method, Jian Zhong, Xiao-Guang Wu, Ying-Jun Ma, .. Dong Yang et al., Nucl Sci Tech., 29:108, 2018;

Structure of a positive-parity band in ¹³⁰Pr, K. Y. Ma, J. B. Lu,.. D. Yang et al., Eur. Phys. J. A 53: 10, 2017.