DATA CENTER AT PETERSBURG NUCLEAR PHYSICS INSTITUTE STATUS REPORT, 2013-2015

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General

The Data Center is a part of the Nuclear Spectroscopy Laboratory in the Neutron Research Department of the Petersburg Nuclear Physics Institute. It consists of 3 physicists, 1 mathematician and 1 programmer. Our main activity is connected with information support of fundamental researches and nuclear technologies on the WWR reactor.

Evaluation in the ENSDF format

The PNPI area of responsibility in the evaluation process includes nuclides with A = 130 – 135:

Mass number	Last publication	Comment
130	*NDS*, **93** (2001)	will be updated with B.Singh
131	*NDS*, **107** (2006)	
132	*NDS*, **104** (2005)	
133	*NDS*, **112** (2011)	
134	*NDS*, **103** (2004)	
135	*NDS*, **109** (2008)	

Yu. Khazov, A. Rodionov and G. Shulyak took the mass chain **A =146** (*NDS*, **82** (1997)) to preparation. After global revision of 2013 the evaluation will be finished this year.

Extraction of the ENSDF errors

G. Shulyak created a code set for search for errors in the ENSDF. The codes are located on the Web site of the Data Center. There is an actual list of the errors in the ENSDF (http://georg.pnpi.spb.ru/). We proposed to include the error checking in the procedure of the new ENSDF revision.

Horizontal evaluation or data systematics

L.Kabina, I. Mitropolsky and S. Lisin created special or problem oriented databases that needed for application of the nuclear data from the ENSDF in physics and technologies. The database ROTAN is oriented for analysis of nuclear rotational states. It contains the relational database of nuclear rotational bands, the codes for model analysis of energy levels and the useful interface.