

Progress Report on Nuclear Structure and Decay Data Activities at MTA Atomki

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Period covered: 2015-2016

The MTA Atomki evaluation center

The center at Institute for Nuclear Research (MTA Atomki) consists of two evaluators: János Timár and Zoltán Elekes, who devote altogether 0.5 FTE to mass-chain evaluation work. We are working on mass-chain evaluation since 2009. Our permanent responsibilities are the $A=101-105$ mass chains. Our evaluation work is currently supported (non-financially) by MTA Atomki.

Status of our permanent responsibilities

<u>Mass</u>	<u>Last NDS</u>	<u>ENSDF update</u>
101	1998	2006-10
102	2009	2009-08
103	2009	2009-10
104	2007	2007-09
105	2005	2005-11

Mass-chain evaluation and other activity in the 2015-2016 period

- Evaluation for mass chain 128 is published (NDS 129, 191 **2015**).
- We have evaluated mass chain 101 with our Romanian colleagues, Alexandru Negret and Sorin Pascu, and it is submitted for review.
- We have evaluated mass chain 46, and it is almost ready for submission (maybe submitted by the time of the meeting).
- Mass chain 105 is evaluated in collaboration with Stefan Lalkovski from University of Sofia. From our side the evaluation is ready, Stefan is working on the last isotope.

- We have organized a workshop for European evaluators at MTA Atomki (http://users.uoa.gr/~tmertzi/NDE_Workshop/index.html) where we discussed how we could involve more people in the evaluation work.

Plans for the next period (2017-2018)

- We would like to publish the evaluations for mass chains 101, 105 and 46.
- We intend to continue to work together with the Romanian data center and evaluate mass chains 118, first and 103 later. If we have time we also would like to start on mass chain 104.