

***Nuclear Structure and Decay Data  
Evaluations and Related Activities  
of the Idaho Group***

***for report to the meeting of the***

***U. S. Nuclear Data Program  
November 3 – 5, 2004***

***at***

***Brookhaven National Laboratory***

# *I. Mass-chain Evaluations*

*Within the Nuclear Structure and Decay Data Evaluation Network, the Group working at the Idaho National Engineering and Environmental Laboratory has the responsibility for the twelve mass chains 87 and 153-163. The participants in this work are C. W. Reich and R. G. Helmer. Since the last network meeting in November 2003, complete evaluations for  $A=155$  and  $157$  have been finished, with that for  $A=158$  having been published.*

The current status of our mass chains are as follows:

<u>Mass</u>	<u>Date of most recent publication</u>	
87	3/2002	
153	2/1998	submitted
154	10/1998	in progress
155	4/1994	submitted
156	8/2003	
157	6/1996	to be published
158	3/2004	
159	7/2003	
160	8/1996	in progress
161	8/2000	
162	7/1999	
163	1/2000	

*As part of this program, we have reviewed the mass-chain evaluations for  $A=70$ , 149 and 157.*

## *II. Decay Data Evaluation Project, DDEP*

*During the last year, several evaluations have been submitted, edited, and finalized. The nuclides are  $^{125}\text{Sb}$ ,  $^{140}\text{Ba}$ ,  $^{140}\text{La}$  and  $^{159}\text{Gd}$ .*