## **No GMA Coding Error for the ENDF/B-VI Standards Evaluation!**

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## GMA

• During the international evaluation of the neutron cross section standards (these cross sections were accepted into ENDF/B-VII.0), an error was found in the GMA code circulated by ANL. The documentation for this code is contained in (ANL/NDM-139). The code has been corrected and some modifications were made to it before using it for this evaluation. It is now GMAP and it is available at <a href="http://www-nds.iaea.org/standards">http://www-nds.iaea.org/standards</a>

• Initial studies suggested that the code with the error was the one used in the ENDF/B-VI standards evaluation. The resulting error in some of the standards could be as large as 5% as a result of this error.

• We recently pursued this further and found that the code used by Wolfgang Poenitz for the ENDF/B-VI standards evaluation did **not** have this error. The code used for the ENDF/B-VI standards work was run on the ANL mainframe computer. That fortran code was modernized and "improved" so it could be run easily on different computer systems. GMA can now run the problems in a few minutes on a PC that required overnight mainframe runs in 1987. However apparently the code modernization resulted in the code error.

•Thus there is **NO ERROR** in the ENDF/B-VI standards evaluation from a coding error in GMA.