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Memo CP-C/410

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**Date:** August 20, 2012

**To**: Distribution

**From:** Boris Pritychenko

**Subject: Subfield5 (Branch) –** COH/IM

I was working on Atlas of Neutron Resonances compilation and discovered a large number of imaginary values for coherent scattering amplitudes: Li-6, B, B-10, Cd, Cd-113, Gd, Gd-155, Gd-157 and Hg-196. Similar data already exist in EXFOR as subentry 11017.002.

Unfortunately, there is no coding for imaginary part of scattering amplitude. Consequently, I will suggest the following solution using Li-6 as an example:

(3-LI-6(N,EL)3-LI-6,COH,,AMP,,,RECOM) for real part

(3-LI-6(N,EL)3-LI-6,COH/IM,,AMP,,,RECOM) for imaginary part.

**Dictionary 36**

COH/IM Imaginary part of scattering amplitude

**References**

[1] S.F. Mughabghab, Atlas of Neutron Resonances, Elsevier (2006).

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