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The Atlas of Neutron Resonances provides detailed information on neutron resonances, thermal neutron cross sections, and average resonance properties which are important to neutron physicist, astrophysicists, solid state physicists, reactor engineers, scientists involved in activation analysis, and evaluators of neutron cross sections.

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Neutron cross section covariances in the resolved

Evaluation of Neutron Reactions on Iron Isotopes for CIELO and ENDF/B-VIII.0 ... modifications were applied to resonances in ⁵⁶Fe. The low energy part of the Fe file is almost totally based on measurements. ... the Atlas of Neutron Resonances[30]. The original file

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the scanned images of Atlas of Neutron Resonances can also be displayed by pressing the button labelled "Atlas of Neutron Resonances" as shown in Figure 3. 3 Calculation method and procedure The PTANAL and WRIURR codes which have been slightly modified for the resonance module are used for the cal-

Extension of the EMPIRE code to the resonance region

The Atlas of Neutron Resonances provides detailed information on neutron resonances, thermal neutron cross sections, and average resonance properties which are important to neutron physicist, astrophysicists, solid state physicists, reactor engineers, scientists involved in activation analysis, and evaluators of neutron cross sections.

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of the neutron strength function based on an analysis of the experimental data which extends the resonance region up to 50keV was lower than values reported in the Atlas of Neutron Resonances [5,7]. There was also a divergence from theoretical estimates based on previous values in the plotted cumulative levels [7].

Isotopic molybdenum total neutron cross section in the

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based on Mughabghab's new Atlas of Neutron Resonances. In the fast-neutron energy region, the evaluations are based on the nuclear reaction model code system EMPIRE developed by Herman et al. 2.1 Low-energy region A statistical analysis of neutron resonances was used by S.Mughabghab,BNL,toproducethewellknownBNL-325in the eighties.

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The neutron capture cross sections for molybdenum isotopes for energies $3 < E_n < 90$ keV have been measured at the Oak Ridge Electron Linear Accelerator [8], and total cross sections were measured in

several investigations – see the Atlas of Neutron Resonances by Mughabghab [9].

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