



Neutron cross-section covariances: estimates on ^{23}Na

Marco Tiziano Pigni *

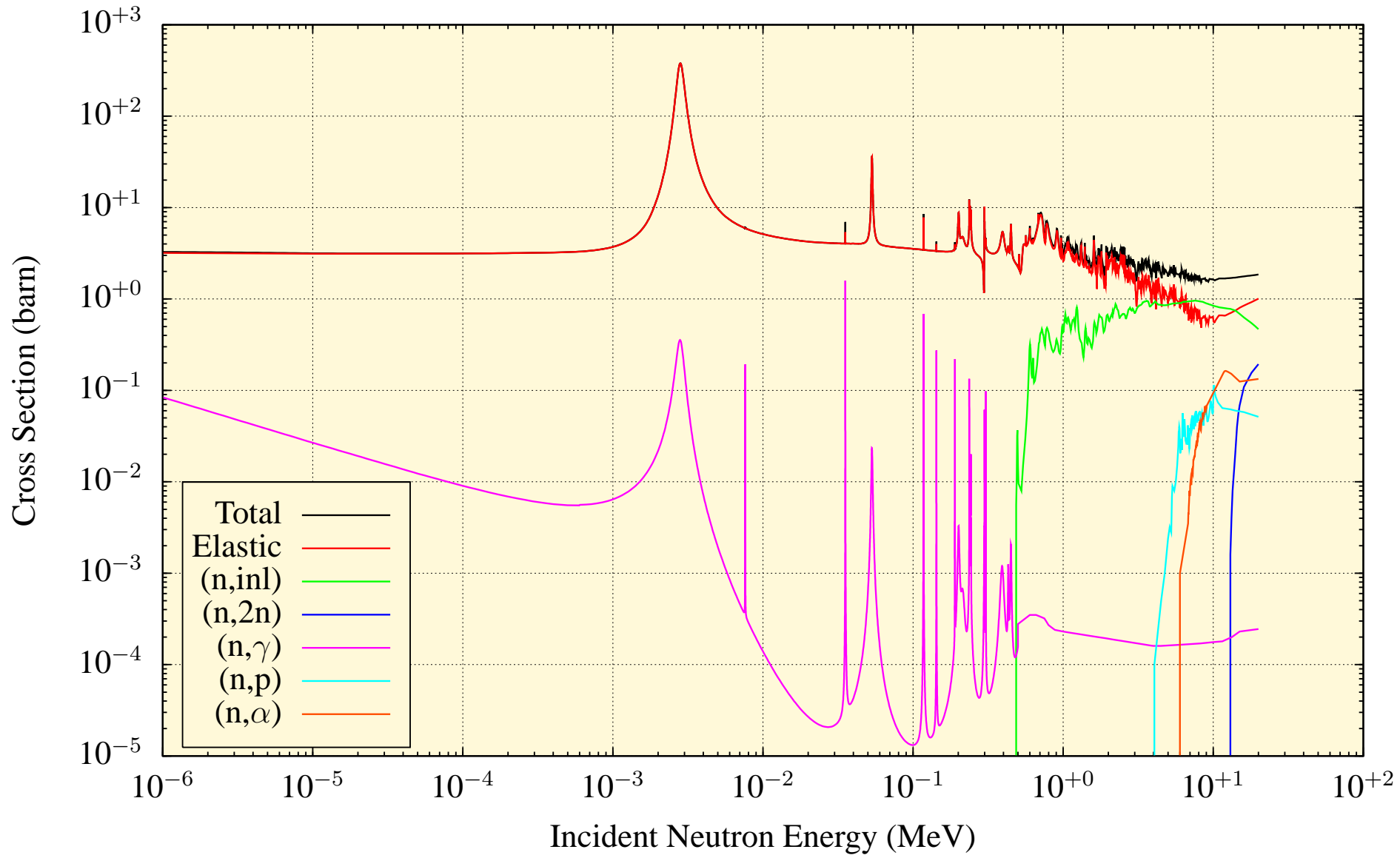
National Nuclear Data Center, Brookhaven National Laboratory

Upton, NY, 11973-5000

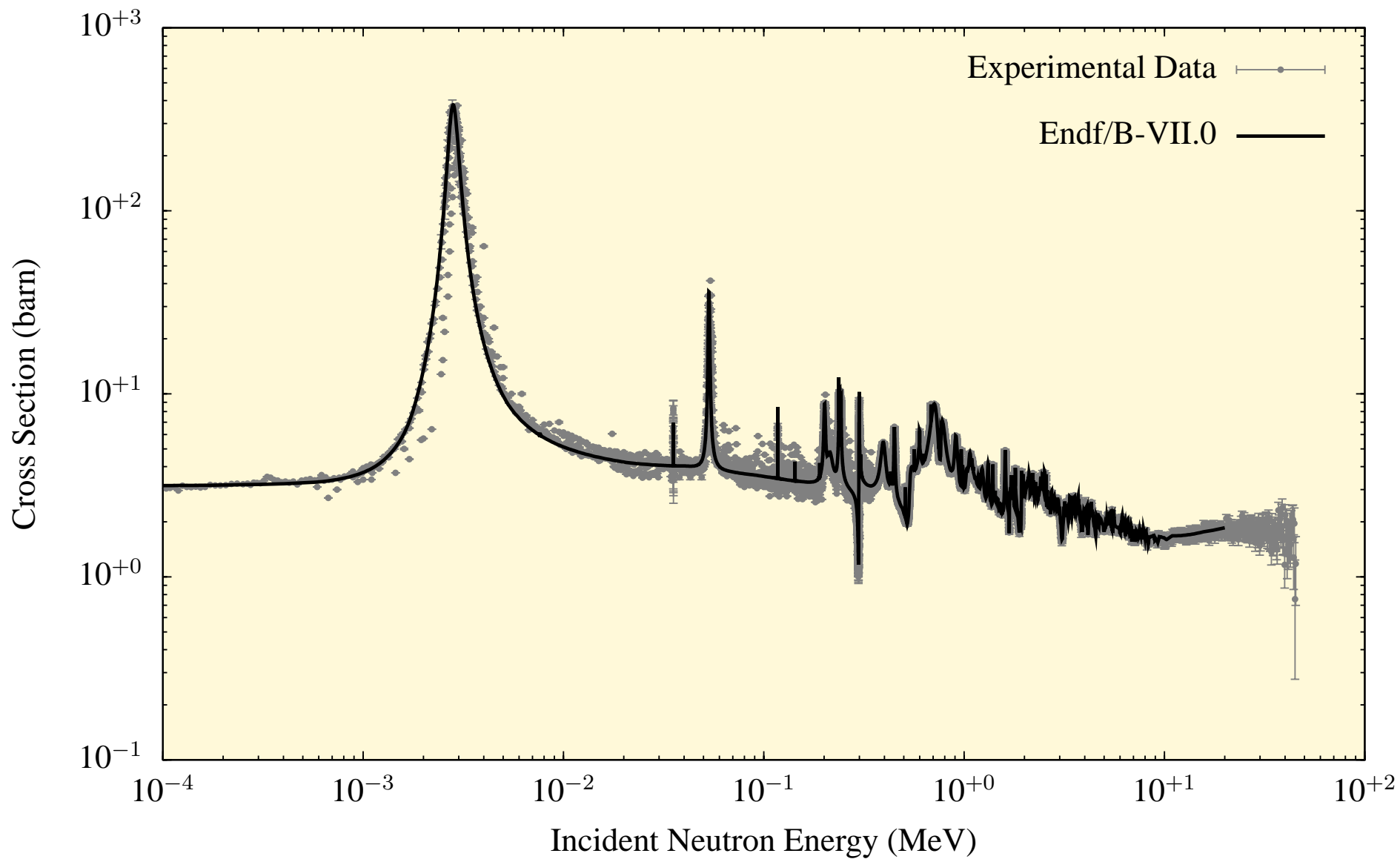
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* Electronic address: pigni@bnl.gov

Evaluation: ENDF/B-VII.0



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Cross sections

$$\sigma_p = \frac{\text{number of particles } p \text{ produced per unit time}}{\text{number of incident particles per unit time per unit per area}} .$$

Definition of total cross section:

$$\sigma_{\text{tot}} = \frac{\pi}{k^2} \sum_{\ell j} (2j + 1)(1 - \text{Re}(S_{\ell}^j)) .$$