Contribution ID: **116** Type: **Eric Bauge**

Contrasting phenomenological models: my experience with Eric

Thursday, 11 July 2024 15:10 (15 minutes)

A short overview of the interaction with Eric within the RIPL project will be given. Calculations performed with the semi-microscopic Lane-consistent folding model (SMOM) potential of Bauge et al. [1] extended to coupled channels [2] will be compared with dispersive coupled-channel optical model potentials for ²³²Th and ²³⁸U [3,4].

References

(1) E. Bauge, J. P. Delaroche, M. Girod, Phys. Rev. C63, 024607 (2001).
(2) F. S. Dietrich, J. D. Anderson, R. W. Bauer, S. M. Grimes, R. W. Finlay, W. P. Abfalterer, F. B. Bateman, R. C. Haight, G. L. Morgan, E. Bauge, J. P. Delaroche, P. Romain, Phys.Rev. C67, 044606 (2003).
(3) R. Capote, S. Chiba, E. Sh. Soukhovitskii, J. M. Quesada and E. Bauge, "A Global Dispersive Coupled-Channel Optical Model Potential for Actinides", J. Nucl. Sci. & Techn. 45, p. 333–340 (2008)
(4) E. Sh. Soukhovitskii, R. Capote, J. M. Quesada, S. Chiba, and D. S. Martyanov, "Nucleon scattering on actinides using a dispersive optical model with extended couplings", Phys. Rev. C94, 064605 (2016)

Primary author: CAPOTE NOY, Roberto Mario (IAEA NAPC-NDS)

Presenter: CAPOTE NOY, Roberto Mario (IAEA NAPC-NDS)

Session Classification: Building Bridges

Track Classification: Building Bridges - Eric Bauge