Special Issue

Nuclear Data and Resonance Self-Shielding Method

Message from the Guest Editor

Various resonance self-shielding methods have been developed for various transport lattice codes such as AEGIS, APOLLO, CASMO, DRAGON, GALAXY, HELIOS, KARMA, LANCER, MC2-3, PARAGON, SCALE-XSProc and Polaris, STREAM, WIMS, etc. In addition, new resonance self-shielding methods are under development and proposed for better performance. This Special Issue of *JNE* will focus on state-of-the-art nuclear data processing and resonance self-shielding methods developed and investigated for various deterministic transport codes. The relevant topics include an assessment of various evaluated nuclear data such as ENDF/B, JEFF, and JENDL, using multi-group deterministic calculations, nuclear data processing and resonance self-shielding methods in the state-of-the-art transport codes, and newly proposed resonance self-shielding methods for multi-physics large-scale simulation.

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