



Contribution ID: 30

Type: **not specified**

A Latest Result of the Neutron Capture Yield of ^{197}Au Measured by the C6D6 Experimental Set-up System in Back-n

Tuesday, 27 May 2025 10:10 (15 minutes)

Since the foundation of Back-n beam line in CSNS, the capture cross section of $^{197}\text{Au}(n, \gamma)$ had been measured twice. Considering the lower energy zone and high level of background of previous results, however, we aim to process the yield result to 1 MeV, and analyze the resonance parameters: resonance peak, Gamma width and incident neutron width from 1 eV to 2 keV that belongs to the Resolved Resonance Range(RRR), using M6-version SAMMY code.

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Session Classification: Parallel Session 2: Nuclear data for applied and scientific purposes/Neutron detection & Methodical aspects

Track Classification: Parallel session: Parallel session 2