

Current status and future of the NECTAR instrument utilizing thermal and fast neutrons

Over the past years, NECTAR has received multiple upgrades, including a new translation/rail system, a scintillator changer, scraper for fast neutrons, and event mode imaging capabilities. The upgrades improve existing capabilities but also enable more advanced new techniques, such as multimodal imaging and event-based neutron imaging. Here, we propose to discuss the current status, as well as the future of the NECTAR instrument with new advanced methods for the world wide only instrument that offers fast neutrons at a large scale international user facility.

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