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Abstract for an Invited Paper
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Research activities using High Intensity Gamma-ray Source facility at TUNL¹

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Current ongoing research activities using the High Intensity Gamma-ray source (HI γ S) facility at TUNL will be presented. Experimental setup, analysis, and results will be focused on the following low-energy activities: (1) Mono-energetic photon induced $^{235}\text{U}/^{239}\text{Pu}$ fission cross-section ratio measurements at $E_\gamma = 8 - 13$ MeV, (2) Mono-energetic photon induced Fission-Product-Yield measurements on ^{235}U , ^{238}U , and ^{239}Pu at $E_\gamma = 11.0$ and 13.0 MeV, and (3) Systematic study of Pygmy Dipole Resonances in nuclei across the nuclear landscape.

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