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Gamma emission from giant dipole resonances

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Gamma decay from the giant dipole resonance to the ground state is a unique probe for studying the damping mechanism of the nuclear collective excitation. We have measured the emitted gamma rays from the giant resonances excited by proton scattering by using LaBr3 gamma-ray detectors and the Grand Riaden magnetic spectrometer. ^{90}Zr was the primary target. Similar coincidence measurement was also performed in the PANDORA project at RCNP. I plan to introduce the physics, measurement and the preliminary results.

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