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Type: Oral

## Recent Results from Proton Scattering Experiments at RCNP

I will report on the recent results from the proton scattering experiment with the high-resolution spectrometer at RCNP. The talk will cover the following subjects, the relative weights of which depends on the selected aural presentations of the other collaborators.

- 1) The electric dipole response of nuclei measured by Coulomb excitation: the electric dipole polarizability and the constraint on the symmetry energy parameters.
- 2) Spin-magnetic dipole excitations in the self-conjugate even-even nuclei in the *sd*-shell: quenching of the IS and IV spin-M1 strengths, *p-n* spin-correlation and IS *p-n* pairing in the ground state.
- 3) Pygmy dipole resonances and their gamma-decay studies.
- 4) Gamma-strength functions studied by the excitation from the ground state.
- 5) Nuclear level densities studied by the spectrum analysis of the high-resolution inelastic scattering data.
- 6) On going projects and the plans in near future

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**Track Classification:** Invited Talk