

Overview of Accelerator Programs in Korea and Their Potential Contributions to Neutrino/Muon Physics

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Korea has several cutting-edge accelerator user facilities that are currently operational or in the commissioning phase. These include the 3rd Generation Synchrotron Light Source (PLS-II) and the X-ray Free Electron Laser (PAL-XFEL) situated in Pohang, the Korea Multi-purpose Accelerator Complex (KOMAC) located in Gyeongju, and the Rare Isotope Accelerator complex for ON-line experiments (RAON) based in Daejeon. Additionally, construction is underway for a new 4th Generation Storage Ring (4GSR) in Cheongju. In this presentation, we will provide an overview of the key specifications and planned upgrades for these accelerators and explore their potential roles in advancing neutrino/muon physics research.

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