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Status and future plans for the Muon Source Program at HIAF

The High Intensity heavy-ion Accelerator Facility (HIAF), scheduled to commence operations in 2026, could deliver muons with energies reaching the GeV scale, offering unique advantages for both applied and fundamental research. In the realm of muon imaging, GeV-energy muons provide significantly higher penetration depth. This enables high-resolution muon tomography of large-scale components and dense structures with unprecedented precision. Furthermore, the high flux and energy tunability of the HIAF muon source open new Opportunities for muon physics to searching for physics beyond the Standard Model. This presentation outlines the current status of the HIAF Muon Source Program, details the beamline specifications, and discusses future plans of muon source programs at HIAF.

Primary author: CHEN, Liangwen

Presenter: CHEN, Liangwen