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Laser Nuclear Polarization of Radioactive Isotopes at TRIUMF

Using collinear optical pumping technique, the laser-nuclear-polarization beam facility at TRIUMF-ISAC has successfully provided highly polarized radioactive isotope beams, such as ^8Li and ^{31}Mg , to study material science, biochemistry, nuclear physics, and fundamental symmetries. An overview of the polarizer facility will be presented. The system upgrade and future development plan will be discussed.

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