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Recent upgrade and development at TRIUMF's polarizer facility

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Using collinear optical pumping technique, the laser-nuclear-spin-polarization beam facility at TRIUMF-ISAC, operating since 2002, routinely provides nuclear-spin polarized radioactive isotope beams, such as ^8Li and ^{31}Mg , for beta detected nuclear magnetic resonance studies in material science, biochemistry, nuclear physics, and fundamental symmetries. To meet the increasing demands from emerging research of beta-NMR in biomedical physics and material science and to laser polarize isotopes, such as Ac and Cu, an upgrade of our laser and beamline systems is underway. An overview of the present polarizer facility will be given, and recent upgrades and ongoing development work will be discussed.

Primary author: Dr LI, Ruohong (TRIUMF)

Co-authors: Dr LASSEN, Jens (TRIUMF); Dr LEVY, C. D. Philip (TRIUMF); Dr MORRIS, Gerald D. (TRIUMF); GOTTBURG, Alexander (TRIUMF)

Presenter: Dr LI, Ruohong (TRIUMF)

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