

国立研究開発法人理化学研究所 に科加速器科学研究センター 第296回 RIBF核物理セミナー RIKEN Nishina Center for Accelerator Based Science The 296th RIBF Nuclear Physics Seminar

Transverse single-spin asymmetry for very forward neutral particle productionin high-energy polarized p + p collisions

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In high-energy polarized p + p collisions, transverse single-spin asymmetry, TSSA, which is defined as a left-right cross section asymmetry of a specific particle with respect to the beam polarization is a powerful tool to study the spin-involved particle production mechanism. To improve our understanding about it especially from the view point of the diffractive interaction, the TSSA for very forward neutral particle production has been measured. In this seminar, one of the experimental efforts, RHIC-forward, and the analysis result are introduced. Its future prospect and how our knowledge will be extended through it are also presented.

May 11th (Tue.) 2021 13:30~ via Zoom meeting system

* The talk will be given in English language.

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