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## Present status and future prospects of SCRIT electron scattering facility

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The world's first electron scattering off online-produced Radioisotope (RI) was successfully conducted at the SCRIT (Self-Confining RI Ion Target) electron scattering facility in RIKEN RI Beam Factory in Japan. Electron scattering stands out as one of the most potent and reliable tools for investigating the structure of atomic nuclei, owing to the well-understood mechanism of electromagnetic interaction.

Despite a long-standing desire to explore exotic features of short-lived unstable nuclei through electron scattering, it has been impeded by the difficulty in preparing thick targets.

We have recently achieved a significant milestone by realizing electron scattering from  $^{137}\text{Cs}$ , which was generated via the photo-fission of uranium and promptly transferred to the SCRIT system for trapping within a short time.

The SCRIT is a novel internal target-forming technique, which allows us to form a stationary target along the electron beam and achieve high luminosity with a small number of target ions.

This experiment serves as a noteworthy emulation of electron scattering from short-lived unstable nuclei produced online, such as  $^{132}\text{Sn}$  in the future.

In this contribution, we will present recent progress and prospects of the SCRIT electron scattering facility. Additionally, we will discuss several topics that may only be feasible in the future using the SCRIT method.

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