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## Status of the pulsed hydrogen gas stripper project at GSI

*Tuesday 3 June 2025 16:00 (2 hours)*

The operation of the specifically upgraded pulsed gas stripper development setup for the user beamtime lasted until July 2024. It was very successful in terms of both providing stripped ions and gaining valuable experience in the long-term operation of the pulsed stripper. The long periods of high duty nitrogen operation revealed a severe service life issue of the fast injection valves, which was already anticipated in the risk assessment for the hydrogen operation. This emphasizes the need for the safety measures incorporated in the design of the pulsed stripper facility. During the user beamtime, several measurement campaigns were conducted. Extensive data on the stripping efficiencies for 12 projectile-target combinations could be obtained. In this contribution the obtained results and lessons learned are presented as well as the necessary next steps to finally bring the hydrogen stripping to routine operation.

### Footnotes

### Paper preparation format

Word

### Region represented

Europe

### Funding Agency

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