



GLAD TPC: overview

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R3B Collaboration Meeting
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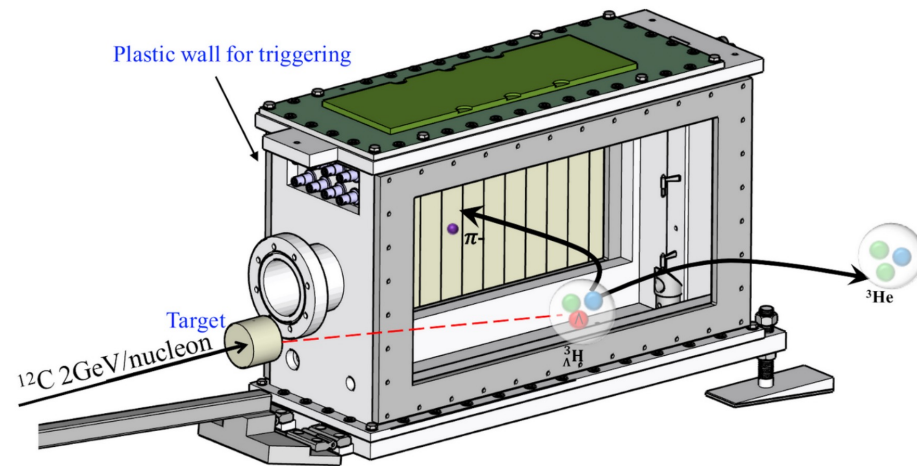
A TPC for GLAD

Targeted advantages

- high momentum resolution
- PID capabilities
- large active area
- high multiplicity events

General challenges

- rates: space charge and readout speed
- resolutions: B-field inhomogeneities
- HYDRA **prototype**
- **First physics case**: interaction cross section of hypertriton
⇒ accepted experiment, proposal G22-073



WG activities and outline of session

HYDRA prototype

- TPC: M. Duer, **A. Enciu**, **L. Ji**, Y. Sun, S. Velardita, F. Wienholtz (TUDa), P. Gasik, J. Hehner (GSI), S. Ota (Osaka)
- Plastic wall: A. Enciu, M. Duer, D. Rossi, **S. Velardita** (TUDa)
- Electronics, readout and DAQ: **B. Loeher** (GSI), A. Enciu, Y. Sun (TUDa)

Simulations

- **H. Pol Alvarez** (Santiago), **S. Velardita** (TUDa)

Tracking

- **Y. Ayyad** (Santiago)

Fiber detectors and future plans

- **M. Duer**, A. Enciu, D. Rossi (TUDa)