

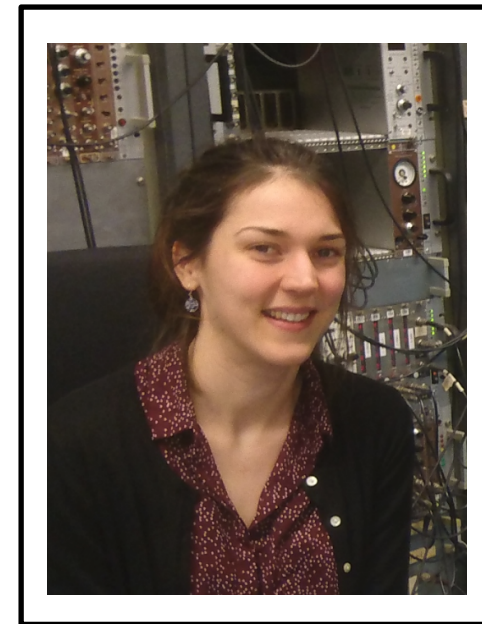
Direct measurement of the ionization quenching factor of nuclear recoils in germanium in the keV range

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Poster #092

- Crucial for CEvNS/DM searches
- **Direct** measurement via **kinematically constrained coincidences**
 - Mono-energetic neutron beams @PTB
 - Dedicated thin HPGe target
 - LS based neutron detectors
- Careful treatment of systematics
- Data compatible with Lindhard theory in $[0.4, 6]\text{keV}_{\text{nr}}$:
 $k = 0.162 \pm 0.004$ (stat+syst)



Session: Fundamental Physics