

# Executive summary for the poster “Virtual tours to the KATRIN experiment”

## Who

Manuel Klein,<sup>a,\*</sup> Christian Humm,<sup>b</sup> Leonard Köllenberger,<sup>a</sup> Philipp Niemann,<sup>b,c</sup> Yannic Scheuermann,<sup>c</sup> Philipp Schrögel<sup>b</sup> and Kathrin Valerius<sup>a</sup>

<sup>a</sup>Karlsruhe Institute of Technology (KIT), Institute for Astroparticle Physics (IAP), <sup>b</sup>KIT, Department for Science Communication, <sup>c</sup>National Institute for Science Communication (NaWik)

## What

The KATRIN experiment measures the absolute neutrino mass scale. The latest result which was released in 2021 is an upper limit of  $m_\nu < 0.8 \text{ eV} / c^2$  (90% C. L.).

We created three kinds of **virtual tours** to the KATRIN experiment:

1. Guided video tour with live explanations in zoom
2. 360° panorama at five locations along the beamline
3. Low-poly model of the detector section, corresponding 3D viewer is work in progress

## Why

- **Restricted access** to the experiment due to the measurement conditions and even more during the pandemic
- **Visualisation** of the beamline setup and display of the challenging construction
- **Interactivity**