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TLK - Providing tritium expertise and technology for the neutrino community

The Tritium Laboratory Karlsruhe (TLK) is a unique facility providing solutions for any needs concerning tritium. Ultimate handling expertise allows to supply gaseous tritium on the gram-scale with a current license of 40g in total.

TLK does not limit offerings to tritium supply but provides a broad variety of solutions for its detection in gaseous, liquid, and solid state with high dynamic ranges, accuracy, and precision. Over 30 years constant development of new techniques as well as improving existing ones for the challenging needs of tritium has transitioned the facilities from a conventional lab to a state-of-the-art service provider delivering cutting edge tritium technology.

With a total experimental area of 1200m² and a total glove box volume of 160m³ the TLK can accommodate any kind of tritium related neutrino experiment. It is the home of KATRIN, currently aiming for the determination of the neutrino mass.

Mini-abstract

The Tritium Laboratory Karlsruhe (TLK) provides tritium expertise for the neutrino community.

Experiment/Collaboration

Tritium Laboratory Karlsruhe (IKP-TLK)

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