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Tritium Laboratory Karlsruhe –opportunities for tritium research

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The Institute for Astroparticle Physics (IAP) operates the European Tritium Laboratory Karlsruhe (TLK), a semi-technical scale facility for processing tritium, the radioactive hydrogen isotope. Its license to handle up to 40 grams of tritium, its present site inventory of about 30 grams of tritium, and its extensive infrastructure and experimental apparatus, make it a favorable location to contribute to research and developments for nuclear fusion research.

More than 20 glove box systems, total volume of about 190 m³, are operated in an area of 1600 m² for experiments and infrastructure facilities. The TLK can look back on a history of more than 30 years of safe operation and experience with tritium.

In this talk we will summarize possible opportunities by the TLK for the public-private R&D initiatives in the field of nuclear fusion.

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