## Light New Physics: From Table-Top Experiments to the LHC



Monday 29 November 2021 - Friday 10 December 2021 Mainz Institute for Theoretical Physics, Johannes Gutenberg University

## **Scientific Programme**

Brief list of scientific goals of the MITP Scientific Program

Overall goal:

Bring together leading experimentalists and theorists from the Quantum sensor community and the LHC with a research focus in tests of fundamental physics

Achieve a better understanding of the sensitivities and limitations of collider and quantum sensor approaches

Produce a proposal to guide a future program of dedicated LHC searches for light new physics Detail the open theory questions that need to be solved to achieve a comparison in specific New Physics models

Construct a map of the parameter space with existing results from quantum sensor and LHC searches