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What is a particle

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The tutorial “What is a particle?” gives an introduction to particle physics from an experimentalist point of view. It is targeted at people working outside particle physics. The first part is an overview over the Standard Model of particle physics. The most important particles and interactions are explained. Then the history of the most important discoveries leading to our current knowledge are summarized, especially the recent confirmation of the Higgs mechanism. The last part of the tutorial covers the present experiments performed on the field of particle physics with the focus on experiments with a contribution from KIT.

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