



Münchener Physik- Kolloquium

Winter
2022/23

Flavour matters – Highlights from the LHCb experiment

Prof. Dr. Stephanie Hansmann-Menzemer, *Physikalisches Institut, Universität Heidelberg*

Monday, 9 January 2023, 17:15 h

Hörsaal 2, Physik-Department der TUM, James-Franck-Straße 1, Garching

The Large Hadron Collider (LHC) close to Geneva holds many records. Amongst others, it is the world largest flavour factory. More than 10¹² particles containing bottom quarks and even more containing charm quarks have been recorded by the LHCb experiment, in recent years. Exploiting these huge data-sets the LHCb experiment is an ideal laboratory to probe the Standard Model in precision measurements. The talk will give an introduction to the key ideas of quark flavour physics, present a selected overview of recent physics highlights and report briefly on the status of the commissioning of the upgraded LHCb experiment.

Das Münchener Physik-Kolloquium wird gefördert durch den Verein Freunde und Förderer der Physik an der TUM e. V.

