

SEMINAR TEILCHENPHYSIK

Thema

Solving Beautiful Puzzles

Abstract

In the search for physics beyond the Standard Model (SM) of particle physics heavy beauty particles provide important information. The large amount of data gathered by the B factories and the LHCb experiment allows testing the SM with high precision, probing scales much higher than the reach of direct searches at the LHC. But this can only be achieved by combining the data with precise and reliable theoretical predictions. We already encountered instances where data and theory did not match: "puzzles". These could be the first sign of a new interaction, or just a misinterpretation of the data.

In this talk, I will focus on inclusive decays, which are usually studied at B-factories, and briefly discuss the V_{cb} puzzle. I highlight the possibilities and challenges for inclusive decays (both beauty and charm) and the opportunity to do such measurements at LHC

Vortragender

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Ort

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Zeit

Donnerstag, 28.11.2024
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im Auftrag:

Dr. Maik Becker