

Frontiers in particle physics: Flavor physics

Monday, 7 November 2016 - Friday, 11 November 2016

Niels Bohr Institute

Scientific Programme

lectures + exercises :

1. Introduction to Flavor particle physics:

- Definitions and Motivation

- Flavor in the Standard Model

2. Past: What have we learned?

- Lessons from the B-factories, testing Cabibbo-Kobayashi-Maskawa matrix for quark mixing

3+4. Present: The open questions:

- The flavor puzzles

- Flavor models

5. Future: What will we learn?

- Flavor@LHC , interesting processes to spot new effects in flavour physics

- The flavor of the Higgs