

Outline

1. What is flavour physics?

- (a) Its relationship to other areas of HEP
- (b) Some theory and history

2. The Cabibbo-Kobayashi-Maskawa (CKM) matrix

- (a) CKM predictions: discovery of charm, bottom and top
- (b) Mixing
- (c) Types of CP violation

3. Kaon and charm physics

4. B Physics

- (a) Measuring the sides of the unitarity triangle: mixing and semileptonic decays
- (b) Measuring the angles of the unitarity triangle
- (c) Searching for new physics
- (d) The future