

PARALLEL SESSION 1

STANDARD MODEL PHYSICS

[GUIDO BELL + CARMEN DIEZ PARDOS]

TP1 Theoretical
Particle Physics

CPPS Center for Particle
Physics Siegen

HEP Experimental
High Energy Physics

Overview

A significant fraction of our research activities belongs to this session

- ▶ Determination of V_{cb} and V_{ub} from inclusive and exclusive B decays
- ▶ Determination of V_{cb} and V_{ts} from top-quark decays
- ▶ SM predictions for rare (inclusive and exclusive) B decays
- ▶ QCD corrections to B -meson mixing and lifetime observables
- ▶ CP violation in hadronic B decays
- ▶ QCD and electroweak corrections to (associated) top-quark production
- ▶ Measurement of $t\bar{t}$, $t\bar{t}H$, $t\bar{t}Z$, $t\bar{t}\gamma$, $t\bar{t}t\bar{t}$ observables
- ▶ Measurement of top-quark properties and couplings
- ▶ Monte-Carlo simulation of collider processes
- ▶ Event shape studies at e^+e^- and hadron colliders

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Schedule

Thursday

Goals of the Standard Model Session

Carmen Diez Pardos et al.

CKM: Measuring V_{ts} and V_{cb}

Diptaparna Biswas

Landhaus Nordhelle

13:40 - 13:55

13:55 - 14:05

Inclusive rare B decays

Jack Jenkins

Landhaus Nordhelle

14:05 - 14:20

14:20 - 14:30

Top quark measurements: (some) general aspects

Carmen Diez Pardos

14:50 - 15:00

Friday

QCD and resummation

Guido Bell

Landhaus Nordhelle

11:00 - 11:15

Modelling of top quark pairs

Katharina Voß

Monte Carlo (Whizard)

Wolfgang Kilian

Landhaus Nordhelle

11:50 - 12:05