

Dortmund LHCb group portraits

Sophie Hollitt

7th October 2021, Jahrestreffen Dortmund

tu technische universität
dortmund

e5



Group Leaders



Bernhard Spaan

Former LHCb MemCo chair

Scientists:

Dirk Wiedner (detector)

Dominik Mitzel (Charm)

Hans Dembinski (LHCb-Cosmo)

Holger Stevens (detector)

Sophie Hollitt (CPV & alignment)



Johannes Albrecht

Former LHCb Deputy PC

Scientists:

Basem Khanji (SL & FT)

Elena Dall'Occo (RD & luminosity)

Miroslav Saur (RD & RTA)

Vitalii Lisovskyi (RD & early meas)

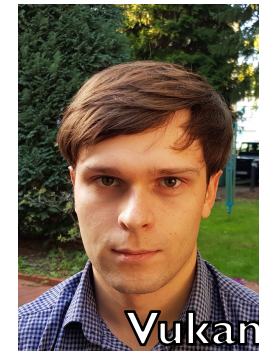
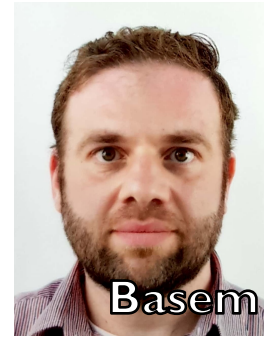
Detector Development

- SciFi commissioning team
 - Dirk Wiedner
 - David Wieczorek (technician)
 - Many other Dortmund volunteers
 - Patrick Mackowiak, Quentin Führung, Louis Gerken, Vukan Jevtic, Gerwin Meier, Maik Becker, Julian Boelhauve, Janina Nicolini, Sophie Hollitt
- Beam Conditions Monitor
 - Martin Bieker, Holger Stevens
 - Matthias Domke & Kai Warda (technicians)
- BCM simulation + LumiTracker/Timepix4
 - Elena Dall'Occo, David Rolf, Lukas Rolf (MSc)



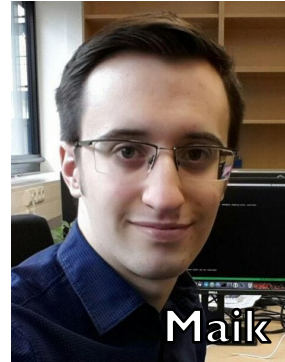
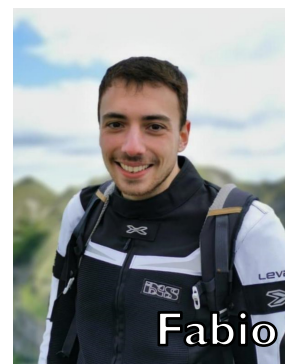
Real Time Analysis & Flavour Tagging

- SciFi alignment
 - Nils Breer (MSc)
 - Sophie Hollitt
- RTA (trigger, tracking, decoding)
 - Lukas Calefice
 - Miroslav Saur
 - Nicole Schulte (MSc)
- Flavour Tagging
 - Vukan Jevtic
 - Quentin Führung
 - Basem Khanji



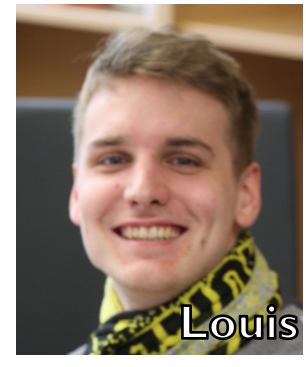
Rare decays & lepton flavour

- Leptonic decays
 - Adrian Krone (MSc)
 - Alex Battig
 - Fabian Koch
 - Fabio De Vellis
 - Lukas Calefice
 - Maik Becker
 - Miroslav Saur
- Rare baryon decays
 - Janina Nicolini
 - Vitalii Lisovskyi
- Lepton Flavour Violation
 - Alex Battig
 - Elena Dall'Occo
- Lepton Flavour Universality
 - Alex Seuthe
 - Jannis Speer
 - Vitalii Lisovskyi



CPV in B mesons (B2OC and B2CC)

- CKM β in $B^0 \rightarrow J/\psi K_S$
 - Gerwin Meier
 - Vukan Jevtic
- CKM γ in $B_S \rightarrow D_S K$
 - Quentin Führung
- CPV in $B_S \rightarrow D_S^+ D_S^-$ and $B^0 \rightarrow D^+ D^-$
 - Antje Mödden
 - Louis Gerken
 - Philipp Ibis
- $B_S \rightarrow D^* D^*$ branching ratio
 - Jan Langer
- $B^0 \rightarrow D^0 \overline{D^0}$ branching ratio
 - Jonah Blank (MSc)
 - Sophie Hollitt



QCD and EW physics

- Cross section measurements in forward direction for cosmic rays
 - Hans Dembinski
 - Julian Boelhauve
- Early measurements: V_0 cross sections
 - Lukas Calefice
 - Vitalii Lisovskyi
- Charm decays with leptons
 - Dominik Mitzel
- Semileptonic B decays
 - Basem Khanji

