

Portrait

*Uni Heidelberg, MPIK
and Rostock groups*

Universität
Rostock



Jahrestreffen der deutschen LHCb-Gruppen
(Theorie und Experiment)

5-6 October 2020
Bonn University



Physikalisches Institut
Uni Heidelberg



**Stephanie
Hansmann-Menzemer**
RTA Deputy Leader



Ulrich Uwer
ScFi Project Leader



Physikalisches Institut
Uni Heidelberg

SciFi Team

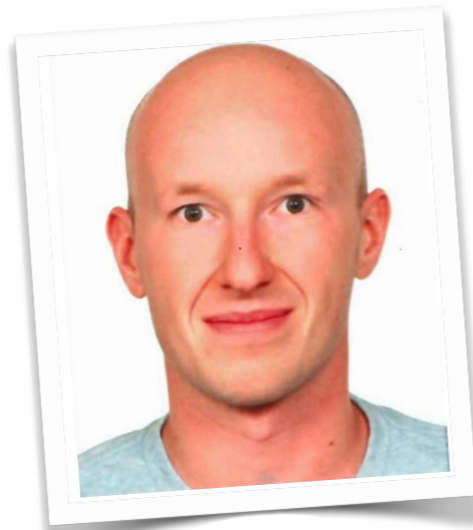


Sebastian Bachmann
Module assembly,
module and coolbox
finish

Bernd Windelband
C-frame engineering



Blake Leverington
Assembly Coordinator



Daniel Berninghoff
Front-End Electronics
commissioning
→ **talk tomorrow**

Hanna Malygina
Production DB



Xiaoxue Han ❄️
Front-End electronics,
electronics coordinator



Lukas Witola
Front-End Electronics
commissioning



Electroweak penguins



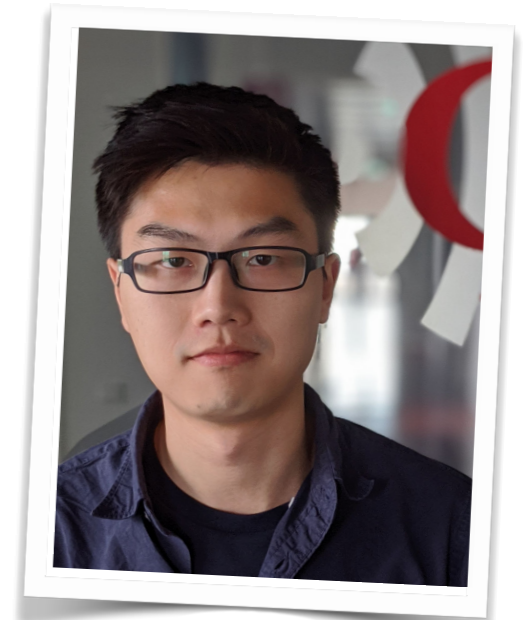
David Gerick

$B^+ \rightarrow K^{*+}(\rightarrow K_S\pi^+)\mu^+\mu^-$
angular analysis



Martino Borsato

Humboldt fellowship
Electroweak penguin
convener



Jiangqiao Hu

$B^0 \rightarrow K^*e^+e^-$
angular analysis



Flavio Archilli

Rare decays convener



Renata Kopecná

$B^+ \rightarrow K^{*+}(\rightarrow K^+\pi^0)\mu^+\mu^-$
angular analysis



Jonathan Brandt

$B^0 \rightarrow K^*e^+e^-$ to study
 $b \rightarrow sy$ transitions



Fabian Glaser

$B^0 \rightarrow K^*e^+e^-$
angular analysis



Very rare and exotics



Flavio Archilli

Rare decays convener

$$B \rightarrow \mu\mu, \tau \rightarrow \mu\mu\mu$$

LFUV in Λ_b

LFV decays



Chishuai Wang

$$\tau \rightarrow \phi\mu$$



Rowina Caspary

$$\tau \rightarrow \mu\mu\mu$$



Daniel Unverzagt

Search for $D \rightarrow hh\mu e$



Martino Borsato

Heavy neutrinos
from B decays



Giulia Frau

$$\tau \rightarrow \mu\mu\mu$$

Tracking calibration
RD Run 1-2 liaison

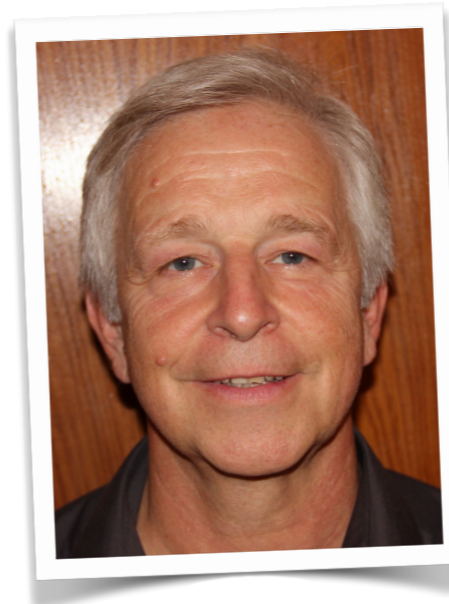


Computing and Real Time Analysis



Peilian Li
Real Time
Analysis

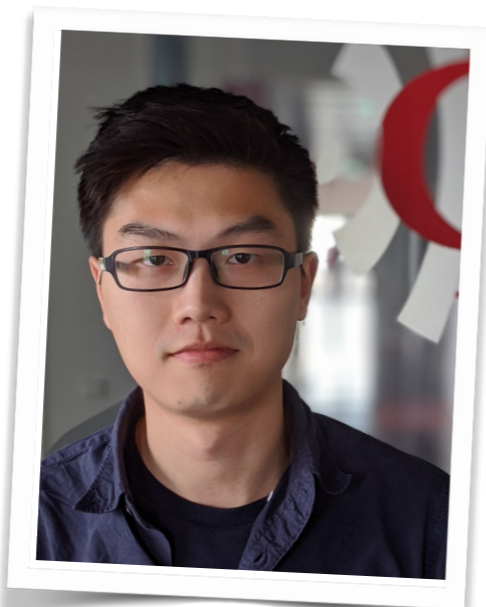
→ **talk tomorrow**



Jörg Marks
Core computing,
Grid computing



Andre Günther
RTA - tracking
algorithms



Jiangqiao Hu
RTA - tracking
algorithms



Giulia Frau
RTA - tracking
algorithms



Alexey Zhelezov
Core computing, Grid
computing, database



Physikalisches Institut
Uni Heidelberg

Amplitude analyses and CPV in B_s mixing



Jascha Grabowski

Exotics search in
 $B \rightarrow \psi(2S)\pi\pi$



Peilian Li

ϕ_s measurement



Pallav Mohan

Exotics search in
 $B \rightarrow \psi(2S)K\pi$



Ya Zhao

Exotics search in
 $B \rightarrow \psi(2S)\pi\pi$



Michael Schmelling (group leader)

- test of CPT-symmetry in $\Lambda - \bar{\Lambda}$ mass difference
- inclusive cross-section analysis (in collaboration with TU-Dortmund)
- links between particle- and hadronic-interaction models used in cosmic ray physics (with Alvaro Pastor (HD) on the cosmic ray side)



Mikhail Zavertiaev (senior, guest researcher)

- analysis of low-pileup data at 7 and 13 TeV

Outreach activities:

development of a PIN-diode based cosmic-ray muon detector (with Hendrik Borrás (HD), and (until August) Swathy Ramakrishnan and Priyanka Kesavadas (KA))



Harald Viemann

$\Lambda_b (\Xi_b) \rightarrow D^0/\bar{D}^0 pK^-$

$D^0 \rightarrow K^- \pi^+$

$D^0/\bar{D}^0 \rightarrow K^-K^+$

thesis finished

Roland Waldi

group leader

(retired since January)

Nis Meinert

$\Lambda_b \rightarrow D^0/\bar{D}^0 \Lambda$

thesis finished

(defence: Oct 9)

left to DLR mid-August