



Aachen Group Portrait

FSP meeting, Bonn

5th October 2020



Academics



Prof. Stefan Schael



Thomas Kirn



*Christoph Langenbruch
(Emmy Noether)*

Post-docs and PhDs

- 3 post-docs: Andreas Güth, Gedas Sarpis, Eluned Smith



- 9 PhDs or soon to be PhDs (names on following slides)



Group activities

Hardware:

- SciFi

$b \rightarrow s(d)\ell\ell$ flavour changing neutral currents:

- Lepton flavour universality measurements
- Branching fractions
- Angular analyses
- CP asymmetries

Majorana neutrino searches

Lepton flavour violation searches

SciFi

Andreas Güth (post doc)



Simon Nieswand (PhD)



+ *Valery Zhukov (post doc)*

Lepton flavour violation searches

Andreas Guth (post doc)



$$B^0 \rightarrow K^{*0} \mu e$$

Jan-Marc Basels (PhD)



$$B_s^0 \rightarrow \phi \mu e$$

Lepton flavour universality measurements

Johannes Heuel (PhD) Stephan Escher (PhD)

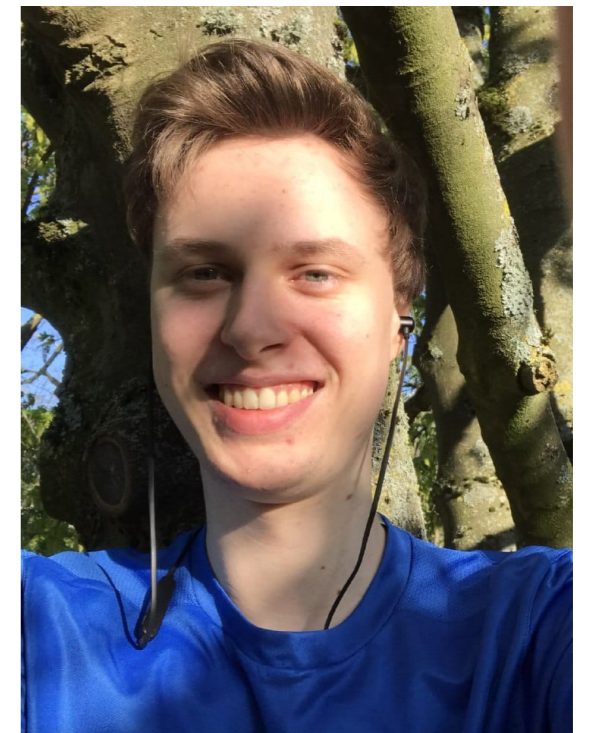
*Sebastian Schmitt
(just finished masters,
starting PhD)*



$R(K\pi\pi)$



$R(K^{*0})$



$R(\phi)$

Angular analyses and branching fractions

*Leon Carus
(PhD)*



*Thomas Oeser
(just finished
masters, starting
PhD)*



*Marcel Materok
(PhD)*



*Sophie
Kretzschmar
(PhD)*



$$B^0 \rightarrow K^{*0} \mu^+ \mu^-$$

angular analysis, full Run 2

$$B_s^0 \rightarrow \phi \mu^+ \mu^-$$

*angular analysis,
full Run 2*

$$B_s^0 \rightarrow \phi \mu^+ \mu^-$$

$$B_s^0 \rightarrow f_2' \mu^+ \mu^-$$

branching fraction

New (and old) post-docs



Gedas Sarpis, just started, will work on some form of rare decay analysis



Work still mainly focused on angular analysis + some $R(X)$ measurements

Summary

- 3 academic staff
- 3 post-docs
- 9 PhD's
- 4 Master's students just finishing
- Varied physics program with a focus on Electroweak penguin analyses

Aachen

