

The 5th edition of the workshop "Beyond the Flavour Anomalies"

Siegen, Germany, 9 – 11 April 2024



Topics

- ★ Rare semileptonic decays
- ★ Tree-level semileptonic decays
- ★ Lepton flavour universality ratios
- ★ Tree-level non-leptonic decays
- ★ Charm sector
- ★ Hadronic effects
- ★ Experimental overviews and prospects
- ★ Beyond the Standard Model

Organising Committee

- ★ Alexander Lenz (Siegen University)
- ★ Mitesh Patel (Imperial College London)
- ★ Konstantinos Petridis (Bristol University)
- ★ Aleksey Rusov (Siegen University)
- ★ Danny van Dyk (Durham University)

Secretariat

- ★ Arzu Ergüzel (Siegen University)

Welcome to Siegen

Beyond the Flavour Anomalies

1.-3.4.2020

IPPP, Durham University, UK



Topics:

- ◇ Global fits for $b \rightarrow sll$ anomalies
- ◇ Experimental challenges for future measurements
- ◇ Connections to R_D, R_{D^*}, \dots
- ◇ Connections to $b \rightarrow dll$
- ◇ Connections to $b \rightarrow s\nu\nu, b \rightarrow s\tau\tau$
- ◇ Connections to $g-2, B$ -mixing, CPV,...
- ◇ Connections to high- q^2 physics
- ◇ BSM models to explain anomalies
- ◇ Hadronic corrections

Local Organising Committee:

- Maria Laura Piscopo
- Christos Vlahos
- Alexander Lenz

Organising Committee:

- Martin Bauer (IPPP)
- Alexander Lenz (IPPP)
- Michael McCann (Imperial)
- Mitesh Patel (Imperial)
- Kostas Petridis (Bristol)
- Michael Spannowsky (IPPP)

2020 online

2021 online

2022 Durham

2023 Barcelona

Welcome to Siegen

Siegen is located centrally in Germany, around 125 km northwest of Frankfurt and 90 km east of Cologne and can be reached well via train or car. Nearby international airports are in Frankfurt, Cologne and Düsseldorf.



The University of Siegen has around 18.000 students and it has a large theoretical flavour physics group with around 40 members. Downtown Siegen offers many pubs, restaurants and cafes, but also theaters, cinemas and concert halls.

Welcome to Siegen



BFA 2024

Tuesday 9.4.2024

9:00 - 9:20 Welcome

9:20 -10:50 Rare sl. Decays

10:50 - 11:30 Coffee

11:30 - 13:00 Rare sl. Decays

13:00 - 14:30 Lunch (self-organised)

14:30 - 16:00 Tree-level sl. Decays

16:00 - 16:30 Coffee

16:30 - 18:00 Tree-level sl. Decays

18:xx Dinner (self-organised)

Please upload the pdfs of your talks to Indico
or send them to rusov@physik.uni-siegen.de



Lunch/Dinner suggestions

Cafe Extrablatt

City Galerie



Mensa
Unteres
Schloss/
Food court

Die Gastronomie im Lütz

NOÛS - Griechische Meze Bar Restaurant

Das am 29. November 2023 eröffnete Restaurant **NOÛS** begrüßt seine Gäste im Lütz mit griechischen Spezialitäten für den großen und kleinen Hunger. Traditionelle Gerichte Griechenlands, neu konzipiert und frisch zubereitet, laden ein, eine neue Vielfalt des Landes zu entdecken. Ob Fleisch, Fisch oder vegetarisch — für jeden ist etwas dabei.
 Öffnungszeiten: Mittwochs bis sonntags, jew. ab 17 Uhr
 Tel.: 0271 250 270 93
 Instagram: [instagram.com/nous_siegen/](https://www.instagram.com/nous_siegen/)



[Speisekarte](#) (pdf-Datei)

We are here!

And many more.....

BFA 2024

Wednesday 10.4.2024

9:00 -10:30 Rare sl. Decays

10:30 - 11:00 Coffee

11:00 - 12:30 Rare sl. Decays

12:30 - 14:00 Lunch (self-organised)

14:00 - 15:30 Charm

15:30 - 16:00 Coffee

16:00 - 17:30 Non-lept. Decays

18:00 Nightwatch and Dinner

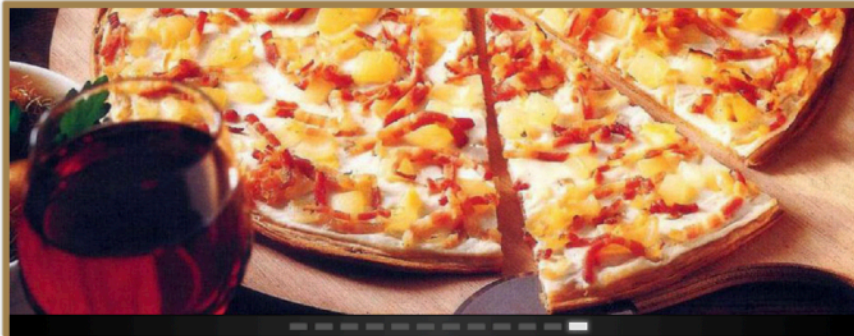
Please upload the pdfs of your talks to Indico
or send them to rusov@physik.uni-siegen.de



Nightwatch and dinner

LÖHRSSS.
ALTER WEINKELLER

START WEINE & SPEISEN **NACHTWÄCHTERFÜHRUNG** AKTIONEN GESCHICHTE FEIERLICHKEITEN REFERENZEN
KONTAKT



Nachtwächterführungen



Group 1:

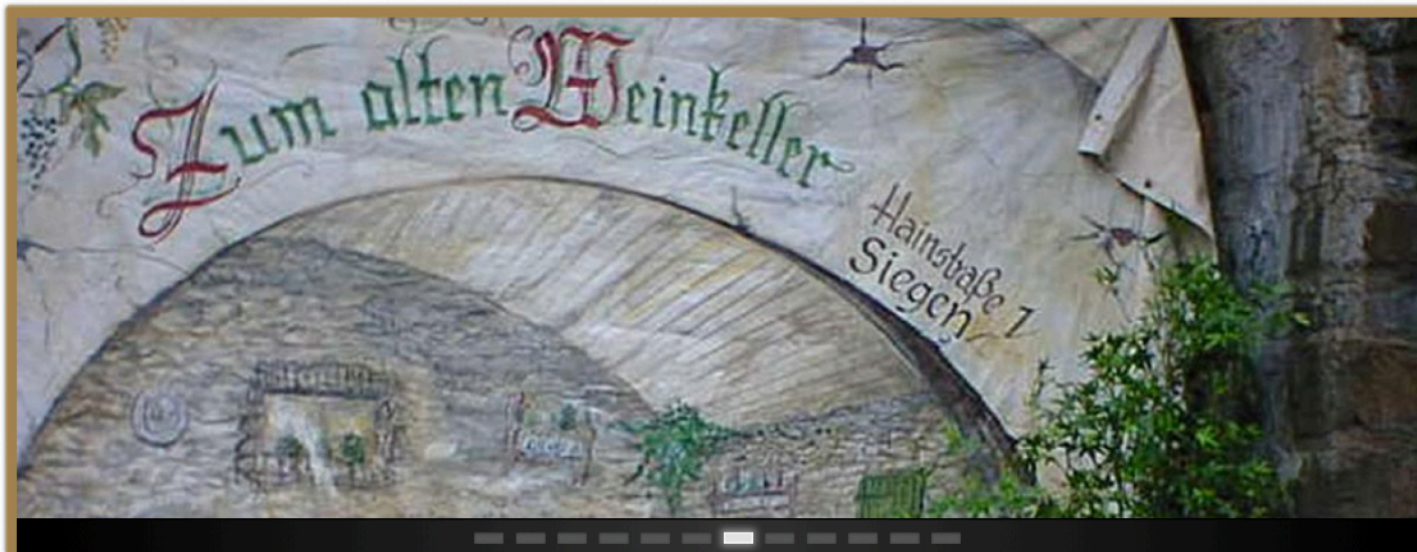
18:00 Nikolai Church: start of tour
with night watch

20:00 Dinner at Alter Weinkeller

Group 2:

18:30 Dinner at Alter Weinkeller

20:00 start of tour with night watch



BFA 2024

Thursday 11.4.2024

9:00 - 10:30 Rare sl &
Non-leptonic decays

10:30 - 11:00 Coffee

11:00 - 12:30 Other Anomalies

12:30 - 14:00 Lunch (self-organised)

14:00 - 15:30 Experimental Outlook

15:30 - 16:00 Coffee

16:00 - 16:45 Experimental Outlook

16:45 - 17:30 Closing

Follow us on
Instagram!



Alexander Lenz @alexlenz42 · 14h

The 5th edition of "Beyond the flavour anomalies" will start tomorrow
[#beyondanomalies](#)
indico.physik.uni-siegen.de/event/42/overv...

The 5th edition of the workshop
"Beyond the Flavour Anomalies"
Siegen, Germany, 9 - 11 April 2024

Beyond the Flavour Anomalies
1.-3.4.2020
IPPP, Durham University, UK

Topics:

- Global fits for $b \rightarrow sl$ anomalies
- Experimental challenges for future measurement
- Connections to R_D, R_{D^*}, \dots
- Connections to $b \rightarrow dl$
- Connections to $b \rightarrow su, b \rightarrow st$
- Connections to $q=2, B$ -mixing, CPV,...
- Connections to high- q^2 physics
- BSM models to explain anomalies
- Hadronic corrections

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Logos: Universität Siegen, Center for Particle Physics Siegen, IPPP, PPH, SUBATOMIC HEROES



Twitter/instagram:
[#beyondanomalies](#)
Prize for tweet/post
with most likes

Please upload the pdfs of your talks to Indico
or send them to indico@physik.uni-siegen.de

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Zadar, Croatia

<https://indico.physik.uni-siegen.de/event/137/>

The workshop will take place in the beautiful coastal city of Zadar, Croatia.



Quirks in Quark Flavour Physics 2024

Jun 17 – 21, 2024
Europe/Berlin timezone

- Overview
- Call for Abstracts
- Timetable
- Registration
- Participant List
- Privacy Information
- Practical Information
 - Accommodation & Venue
 - Travelling Information
 - Social Programme

We will discuss the state of the current anomalies, puzzles, and quirks in quark flavour physics. Participants will contribute in the fields of experimental physics, phenomenology, and lattice field theory.

Quark flavour physics has been instrumental in creating the standard model of particle physics. The comparison of precise theory predictions and corresponding precise measurements enabled the prediction of the charm and top quark and their masses prior to their discovery. In 2024 we might be in an even more exciting position: the currently observed B anomalies could point towards the existence of new degrees of freedom that make up the long sought-after extension of the Standard model at higher energies. In this workshop we will bring together experts in Quark Flavour Physics working in experiment, phenomenology, and lattice QCD to review the field of quark flavour physics and to pave the way for future developments.



Lyz-kulturhaus: lyzweb66