

## Helmholtz Institute

UNIVERSITÄT MAINZ

MAINZ, GERMANY

### Application for Postdoctoral Research Associate - Helmholtz Institute

To whom it may concern,

## About Me

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Since March 2021, I have been working as a PhD student in the TP1 group of Universität Siegen with a focus on lattice QCD for heavy flavour physics; further interests include QCD sum rules, new physics models, and quantum simulations. I am currently expected to complete my PhD in summer/early autumn 2024. Previously I studied Theoretical Physics (MPhys) at Durham University in the UK achieving a Class I (Honours).

I am an active member of the TP1 community, having served as a teaching assistant for multiple courses and mentored a Bachelor's student throughout their thesis work. Additionally, I have played a crucial role in the group's sys admin team, dedicating substantial effort to the maintenance and enhancement of the Linux computer systems and also to the education of the users. My contributions have significantly bolstered the support provided to my colleagues in their academic pursuits.

## Why Me?

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I am a passionate and dedicated scientist and I am looking forward to continuing my research career beyond my PhD. Throughout my academic career, I have worked on a diverse set of projects, giving me a rich and broad knowledge of particle physics phenomenology and lattice simulations. I am a very hard-working individual who will bring passion to my work and happily dedicate myself to research to the full extent of my abilities. I have the adaptability and aptitude needed to apply myself to any task or research goal needed of me and I'm eager to find new challenges to confront and overcome. I am also keen to integrate myself into any working community I find myself a part of, and will look to apply myself to the group's needs beyond scientific research.

The opportunity to continue developing my own knowledge and expertise while contributing towards the expansion of scientific knowledge is something most valuable to me, and I believe working with the Helmholtz Institute of Universität Mainz is ideally situated for this.

Thank you for your time and consideration, I look forward to hearing from you.

Sincerely,

**Matthew Black**