

# LHCb Postdoc at Cambridge

LHC Job Matching Event  
May 2024

Matt Kenzie

# What's on offer?

- Two upcoming post-doc positions in the Cambridge LHCb group
- One in hardware - LHCb Upgrade II RICH fast electronics
- One in physics analysis and reconstruction - Rare Decays at LHCb tests of LFU
- These could be split 50/50

# A beautiful city

- — unique history
- — (almost) unique collegiate structure

My college office





# A world-class Department

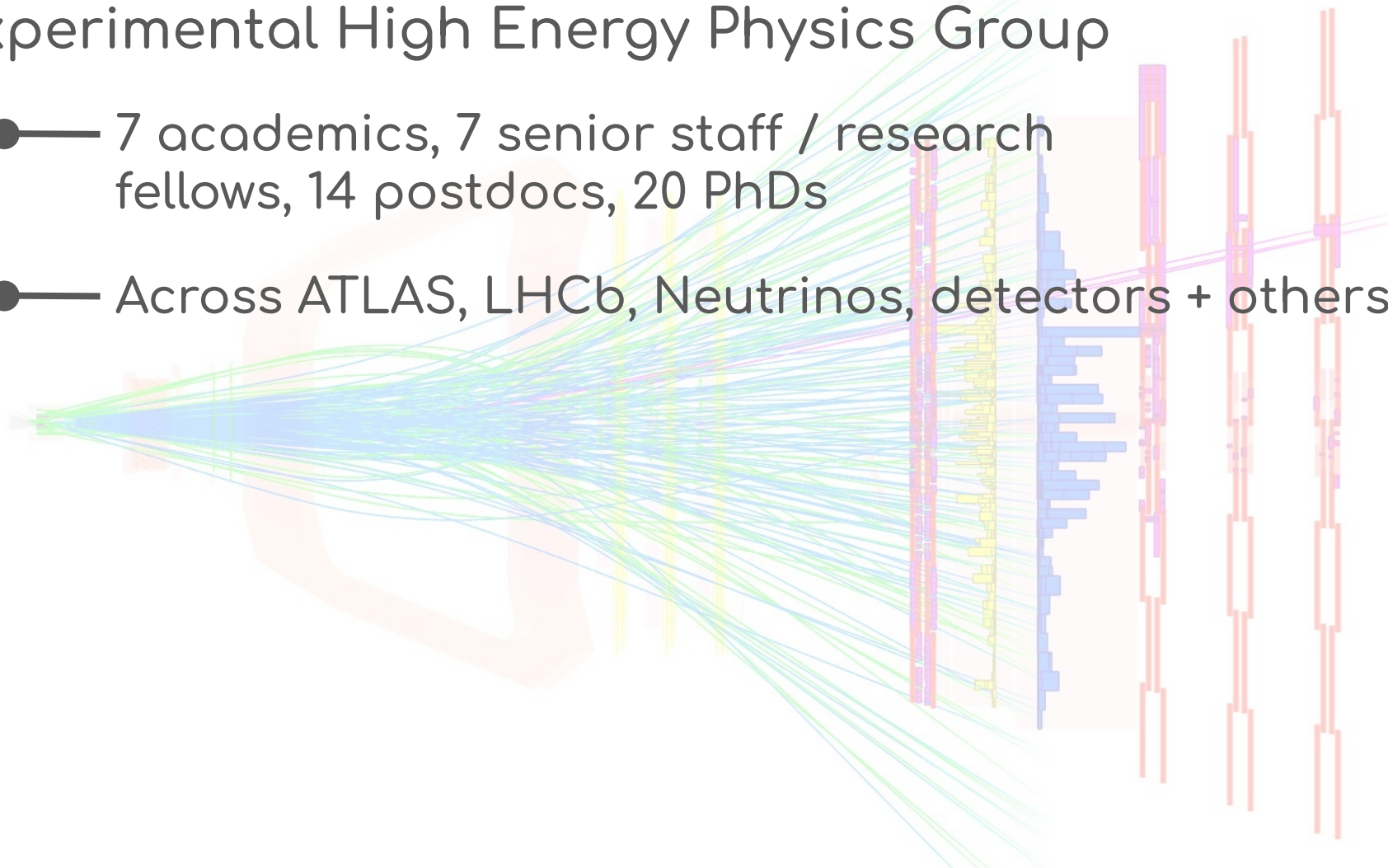
- — Brand new state-of-the-art building
- — ~100 academic staff across 18 groups



Ray Dolby Centre opening in 2024

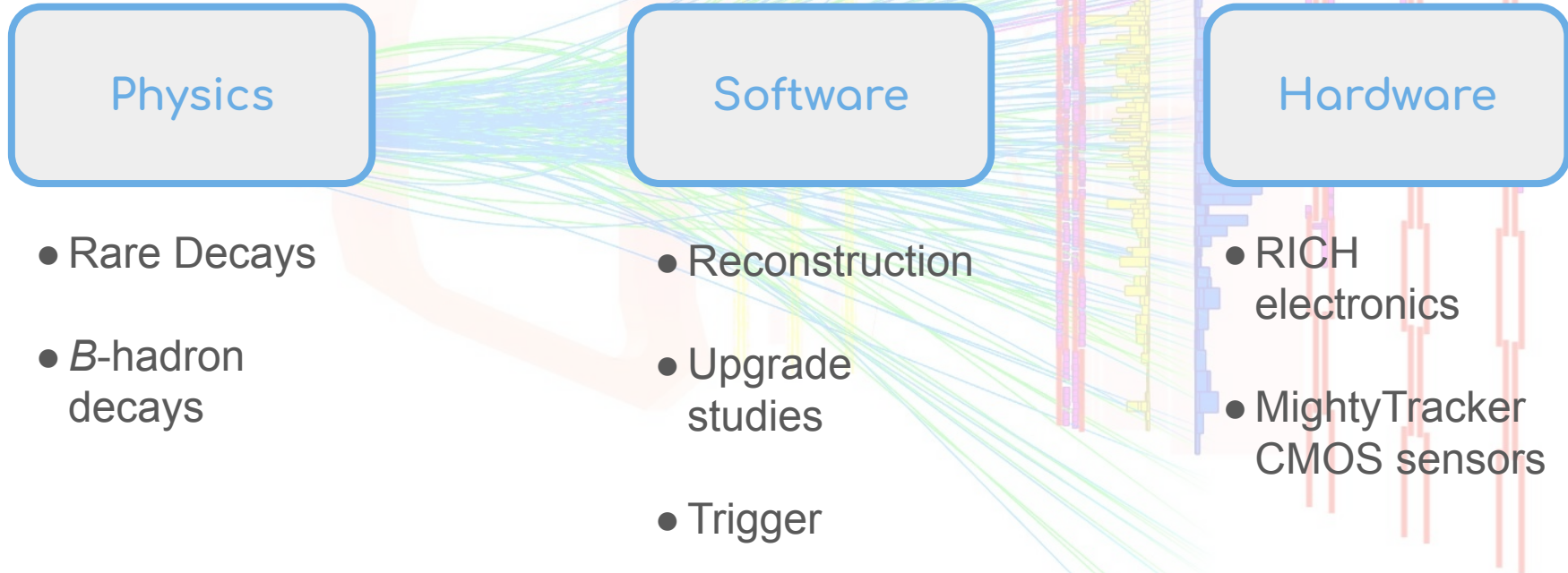
# Experimental High Energy Physics Group

- — 7 academics, 7 senior staff / research fellows, 14 postdocs, 20 PhDs
- — Across ATLAS, LHCb, Neutrinos, detectors + others



# Cambridge LHCb Group

- — 2 academics + 3 senior staff
- — 6 postdocs + 2 upcoming opportunities
- — 7 PhD students





# Cambridge LHCb Upcoming Opportunities

- — 1 postdoc in hardware (RICH electronics)
  - LHCb Upgrade II needs timing information
  - Develop, test, prototype and construct fast, timing-integrated readouts for LS3 enhancements and LS4 Upgrade II
  - Work on simulations of the above
- — 1 postdoc in physics analysis (Rare Decays)
  - Rare Decays analysis,  $b \rightarrow s \ell \ell$ , LFU, lifetimes,  $B \rightarrow \mu\mu$
  - Contributions to LHCb reconstruction and trigger software, particularly with regards to PID
- — Adverts will go out in the next month or so
- — Contact Matt Kenzie ([mk652@cam.ac.uk](mailto:mk652@cam.ac.uk)) and Paula Alvarez Cartelle ([pa459@cam.ac.uk](mailto:pa459@cam.ac.uk))