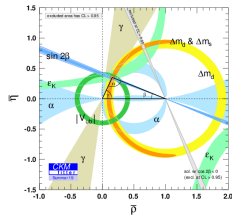


# LHCb UK Annual Meeting

Martin Tat

Oxford LHCb

6th January 2021



# About myself

- From Kristiansand, Norway
- 4-year Master of Physics, University of Oxford
- PhD with LHCb at University of Oxford
- Supervisors:
  - Prof Guy Wilkinson (analysis)
  - Prof Neville Harnew (detector)

# Analysis project: $\gamma$ measurement

- $B^\pm \rightarrow DK^\pm$ ,  $D = D^0, \bar{D}^0$ 
  - $D \rightarrow K^+ K^- \pi^+ \pi^-$
- Interference between  $b \rightarrow c$  and  $b \rightarrow u \Rightarrow \gamma$  measurement!
- 4-body decay  $\Rightarrow$  5-dimensional phase space
- Strong phase inputs from BESIII

