

Greig A. Cowan

CONTACT DETAILS

School of Physics and Astronomy
University of Edinburgh
EH9 3JZ
UK

+44 (0)131 651 7037
greig.cowan@cern.ch
@GreigCowan

RESEARCH CAREER

University of Edinburgh

STFC Ernest Rutherford fellow: LHCb
Research Associate: LHCb

Jun 2013 - present
Feb 2013 - Jun 2013

École Polytechnique Fédérale de Lausanne, Switzerland

Research Associate: LHCb

Aug 2010 - Jan 2013

University of Edinburgh

Research Associate: GridPP/LHCb

Apr 2005 - Jul 2010

POSITIONS HELD IN LHCb

- Physics coordinator of the LHCb-UK collaboration (2014-present).
 - Responsible for LHCb measurement of the CP -violating phase ϕ_s in the $B_s^0 \rightarrow J/\psi K^+ K^-$ channel and the combination with $B_s^0 \rightarrow J/\psi \pi^+ \pi^-$.
 - **Convenor** of the B2CC physics working group and member of the physics planning group.
 - Convener of the “ b -hadron lifetimes” sub-group of B2CC.
 - Organised “ CP violation in the B sector” session of the 2011 “Implications of LHCb measurements and future prospects”, experiment-theory workshop.
 - **Stripping coordinator**.
 - Grid-expert piquet.
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EDUCATION

University of Glasgow

Ph.D. Theoretical Physics

April 2005

- Thesis: “*Single-flavour, single-colour colour superconductivity*”
- Advisor: Dr. Mark G. Alford

M.Sci. Mathematics and Physics (1st class)

1997 - 2001

- Project: “*Lattice QCD calculation of f_B from moving B mesons*”
- Advisor: Prof. Christine T. H. Davies

SELECTED CONFERENCE PRESENTA- TIONS

- 2014 Beauty (Edinburgh) “Amplitude analysis in $B \rightarrow J/\psi X$ decays”.
- 2014 CERN seminar “Confirmation of the $Z(4430)$ resonance”.
- 2014 SM@LHC (Madrid) “Recent results on B decays”.
- 2014 Epiphany (Krakow) “LHCb overview”.
- 2012 ICHEP (Melbourne) “Measurement of ϕ_s at LHCb”.
- 2011 CERN council “LHCb status report”.
- 2011 Physics@LHC (Perugia) “Mixing and CP violation in the B_s^0 system”.
- 2010 Lake Louise Winter Institute “Measurement of ϕ_s at LHCb”.
- 2008 GridKa computing school. Invited lecture “The importance of data storage”.
- 2007 CHEP “Optimising LAN access to grid enabled storage elements”.

SELECTED PAPERS

- “Observation of the resonant character of the $Z(4430)^-$ state”
R. Aaij *et al.* [LHCb Collaboration], PRL 112 (2014) 222002, arXiv:1404.1903
- “Measurements of the B^+ , B^0 , B_s^0 meson and Λ_b^0 baryon lifetimes”
R. Aaij *et al.* [LHCb Collaboration], JHEP 04 (2014) 114, arXiv:1402.2554
- “Measurement of CP -violation and the B_s^0 -meson decay width difference with $B_s^0 \rightarrow J/\psi K^+ K^-$ and $B_s^0 \rightarrow J/\psi \pi^+ \pi^-$ decays”
R. Aaij *et al.* [LHCb Collaboration], PRD 87 (2013) 112010, arXiv:1304.2600
- “Measurement of the $B_s^0 \rightarrow J/\psi K^{*0}$ branching fraction and angular amplitudes”
R. Aaij *et al.* [LHCb Collaboration], PRD 88 (2013) 052002, arXiv:1208.0738
- “Determination of the sign of the decay width difference in the B_s system”
R. Aaij *et al.* [LHCb Collaboration], PRL **108**, 241801 (2012), arXiv:1202.4717
- “Measurement of the CP -violating phase ϕ_s in the decay $B_s \rightarrow J/\psi \phi$ ”
R. Aaij *et al.* [LHCb Collaboration], PRL **108**, 101803 (2012), arXiv:1112.3183
- “Determination of $2\beta_s$ in $B_s^0 \rightarrow J/\psi K^+ K^-$ decays in the presence of a $K^+ K^-$ S-wave contribution”
Y. Xie, P. Clarke, G. Cowan and F. Muheim, JHEP **0909**, 074 (2009), arXiv:0908.3627
- “Single-flavor and two-flavor pairing in three-flavor quark matter”
M. G. Alford and G. A. Cowan, J. Phys. G G **32**, 511 (2006)
- “Single color and single flavor color superconductivity”
M. G. Alford, J. A. Bowers, J. M. Cheyne, G. A. Cowan, PRD **67**, 054018 (2003)