Dr Alexander Shires

Publications

LHCb peer-reviewed papers

Publications with a significant contribution

LHCb collaboration, R. A. et al, Measurement of $B^+ \to \pi^+ \mu^+ \mu^-$ at LHCb, (in review).

LHCb collaboration, R. Aaij et al., Test of lepton universality using $B^+ \to K^+ \ell^+ \ell^-$ decays, Phys. Rev. Lett. 113 (2014) 151601, arXiv:1406.6482

LHCb collaboration, R. Aaij et al., Measurement of form-factor-independent observables in the decay $B^0 \to K^{*0} \mu^+ \mu^-$, Phys. Rev. Lett. 111 (2013) 191801, arXiv:1308.1707

LHCb collaboration, R. Aaij et al., Differential branching fraction and angular analysis of the decay $B^0 \to K^{*0} \mu^+ \mu^-$, JHEP **08** (2013) 131, arXiv:1304.6325

LHCb collaboration, R. Aaij et al., Differential branching fraction and angular analysis of the decay $B^0 \to K^{*0} \mu^+ \mu^-$, Phys. Rev. Lett. 108 (2012) 181806, arXiv:1112.3515

Additional author on more than 200 papers as a member of the LHCb collaboration.

Peer-reviewed papers outside LHCb

D. Das, G. Hiller, M. Jung, and A. Shires, The $\overline{B} \to \overline{K}\pi\ell\ell$ and $\overline{B}_s \to \overline{K}K\ell\ell$ distributions at low hadronic recoil, JHEP **09** (2014) 109, arXiv:1406.6681

T. Blake, U. Egede, and A. Shires, The effect of S-wave interference on the $B^0 \to K^{*0}\ell^+\ell^-$ angular observables, JHEP 03 (2013) 027, arXiv:1210.5279

LHCb conference submissions

LHCb collaboration, Differential branching fraction and angular analysis of the $B^0 \to K^{*0} \mu^+ \mu^$ decay, LHCb-CONF-2012-008

LHCb collaboration, Angular analysis of $B^0 \to K^{*0} \mu^+ \mu^-$, LHCb-CONF-2011-038

LHCb documents

A. Shires, Optimising the electron triggers for 2015, LHCb-INT-2014-038. CERN-LHCb-INT-2014-038

Invited Talks

International conferences

Frontiers in Particle Physics, Aspen, Jan, 2014, Rare heavy flavour decays at the LHC,

Spin-PRAHA, Prague, Jul, 2012, Testing the helicity structure of new physics with rare decays at LHCb,

Seminars

GDR-Terascale annual meeting, Heidelberg, Dec, 2014, Testing lepton universality in b decays,

Theoretical Physics Seminars, TU Dortmund, Oct, 2014, Searching for new physics in $b \rightarrow (s,d)\ell^+\ell^-$ transitions,

Collider cross talk, CERN, Sept, 2014, Test of lepton universality using $b \to s \ell^+ \ell^-$ decays at LHCb,

High Energy Physics Seminar, University of Bonn, Oct, 2013, Electroweak penguins at LHCb,

High Energy Physics Seminars, TU Dortmund, Apr. 2013, Exploring $B^0 \to K^{*0} \mu^+ \mu^-$ at LHCb,

IOP HEPP Annual Meeting, Queen Mary, University of London, Apr. 2012, Angular analysis of $B^0 \to K^{*0} \mu^+ \mu^-$ at LHCb,