

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

|                    |                          |                |                 |
|--------------------|--------------------------|----------------|-----------------|
| 677<br>papers      | 21,010<br>citations      | 66<br>h-index  | 116<br>g-index  |
| 694<br>ext. papers | 25,555<br>ext. citations | 5.3<br>avg, IF | 6.28<br>L-index |

| #   | Paper  | IF   | Citations |
|-----|--|------|-----------|
| 677 | The LHCb Detector at the LHC. <i>Journal of Instrumentation</i> , <b>2008</b> , 3, S08005-S08005   | 1    | 622       |
| 676 | Observation of $J/\psi$ Resonances Consistent with Pentaquark States in $\Lambda_b^0 \rightarrow \Lambda/\bar{\Lambda}^0 p$ Decays. <i>Physical Review Letters</i> , <b>2015</b> , 115, 072001                 | 7.4  | 580       |
| 675 | Test of lepton universality using $b \rightarrow s \ell^+ \ell^-$ decays. <i>Physical Review Letters</i> , <b>2014</b> , 113, 151601   | 7.4  | 542       |
| 674 | LHCb detector performance. <i>International Journal of Modern Physics A</i> , <b>2015</b> , 30, 1530022  | 1.2  | 452       |
| 673 | Observation of the rare $B(s)(0) \rightarrow \mu^+ \mu^-$ decay from the combined analysis of CMS and LHCb data. <i>Nature</i> , <b>2015</b> , 522, 68-72  | 50.4 | 326       |
| 672 | Measurement of the ratio of branching fractions $B(B \rightarrow \mu^+ \mu^-) / B(B \rightarrow e^+ e^-)$ . <i>Physical Review Letters</i> , <b>2015</b> , 115, 111803   | 7.4  | 316       |
| 671 | Measurement of form-factor-independent observables in the decay $B^0 \rightarrow \pi^0 \pi^+ \pi^-$ . <i>Physical Review Letters</i> , <b>2013</b> , 111, 191801   | 7.4  | 314       |
| 670 | Test of lepton universality with $B^0 \rightarrow \pi^0 \ell^+ \ell^-$ decays. <i>Journal of High Energy Physics</i> , <b>2017</b> , 2017, 1   | 5.4  | 298       |
| 669 | Performance of the LHCb RICH detector at the LHC. <i>European Physical Journal C</i> , <b>2013</b> , 73, 2431  | 4.2  | 275       |
| 668 | First evidence for the decay $B(s)(0) \rightarrow \mu^+ \mu^-$ . <i>Physical Review Letters</i> , <b>2013</b> , 110, 021801  | 7.4  | 263       |
| 667 | Observation of the Doubly Charmed Baryon $\Lambda_{cc}^{++}$ . <i>Physical Review Letters</i> , <b>2017</b> , 119, 112001  | 7.4  | 257       |
| 666 | Observation of the resonant character of the $Z(4430)^-$ state. <i>Physical Review Letters</i> , <b>2014</b> , 112, 222002   | 7.4  | 234       |
| 665 | Determination of the $X(3872)$ meson quantum numbers. <i>Physical Review Letters</i> , <b>2013</b> , 110, 222001   | 7.4  | 234       |
| 664 | Angular analysis of the $B^0 \rightarrow \pi^0 \pi^+ \pi^-$ decay using 3 fb of integrated luminosity. <i>Journal of High Energy Physics</i> , <b>2016</b> , 2016, 1   | 5.4  | 232       |
| 663 | Measurement of the $B_s(0) \rightarrow \mu^+ \mu^-$ branching fraction and search for $B(0) \rightarrow \mu^+ \mu^-$ decays at the LHCb experiment. <i>Physical Review Letters</i> , <b>2013</b> , 111, 101805 | 7.4  | 221       |
| 662 | Measurement of $J/\psi$ production in pp collisions at $(\sqrt{s}=7)$ TeV. <i>European Physical Journal C</i> , <b>2011</b> , 71, 1  | 4.2  | 216       |
| 661 | Observation of a Narrow Pentaquark State, $P_{c}(4312)^{+}$ , and of the Two-Peak Structure of the $P_{c}(4450)^{+}$ . <i>Physical Review Letters</i> , <b>2019</b> , 122, 222001                              | 7.4  | 199       |

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|-----|---|------|-----|
| 660 | GridPP: development of the UK computing Grid for particle physics. <i>Journal of Physics G: Nuclear and Particle Physics</i> , <b>2006</b> , 32, N1-N20   | 2.9  | 191 |
| 659 | Prompt charm production in pp collisions at . <i>Nuclear Physics B</i> , <b>2013</b> , 871, 1-20  | 2.8  | 163 |
| 658 | Observation of Five New Narrow $\chi_{c0}$ States Decaying to $\chi_{c1} K^{\pm}$ . <i>Physical Review Letters</i> , <b>2017</b> , 118, 182001  | 7.4  | 154 |
| 657 | Evidence for CP violation in time-integrated $D^0 \rightarrow h^{\pm} K^{\mp}$ decay rates. <i>Physical Review Letters</i> , <b>2012</b> , 108, 111602  | 7.4  | 150 |
| 656 | Constraint on the matter-antimatter symmetry-violating phase in neutrino oscillations. <i>Nature</i> , <b>2020</b> , 580, 339-344   | 50.4 | 148 |
| 655 | A study of quasi-elastic muon neutrino and antineutrino scattering in the NOMAD experiment. <i>European Physical Journal C</i> , <b>2009</b> , 63, 355-381  | 4.2  | 147 |
| 654 | Strong constraints on the rare decays $B(s)(0) \rightarrow \mu^{\pm} \mu^{\mp}$ and $B^0 \rightarrow \mu^{\pm} \mu^{\mp}$ . <i>Physical Review Letters</i> , <b>2012</b> , 108, 231801  | 7.4  | 144 |
| 653 | Differential branching fractions and isospin asymmetries of $B \rightarrow K^{(*)} \pi^{\pm} \pi^{\mp}$ decays. <i>Journal of High Energy Physics</i> , <b>2014</b> , 2014, 1   | 5.4  | 142 |
| 652 | The NOMAD experiment at the CERN SPS. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , <b>1998</b> , 404, 96-128                                | 1.2  | 140 |
| 651 | Angular analysis and differential branching fraction of the decay $B^0 \rightarrow \pi^{\pm} \pi^{\mp}$ . <i>Journal of High Energy Physics</i> , <b>2015</b> , 2015, 1   | 5.4  | 138 |
| 650 | Search for Lepton-Universality Violation in $B^{\pm} \rightarrow K^{\pm} \mu^{\pm} \mu^{\mp}$ Decays. <i>Physical Review Letters</i> , <b>2019</b> , 122, 191801  | 7.4  | 137 |
| 649 | Search for $\mu$ oscillations in the NOMAD experiment. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2003</b> , 570, 19-31   | 4.2  | 136 |
| 648 | Measurement of the Ratio of the $B^0 \rightarrow D^{*-} \mu^{+} \pi^0$ and $B^0 \rightarrow D^{*-} \mu^{+} \pi^0$ Branching Fractions Using Three-Prong $\mu$ Lepton Decays. <i>Physical Review Letters</i> , <b>2018</b> , 120, 171802 | 7.4  | 126 |
| 647 | Observation of $X(3872)$ production in pp collisions at $(\sqrt{s}=7\text{TeV})$ . <i>European Physical Journal C</i> , <b>2012</b> , 72, 1   | 4.2  | 121 |
| 646 | Implications of LHCb measurements and future prospects. <i>European Physical Journal C</i> , <b>2013</b> , 73, 1  | 4.2  | 116 |
| 645 | Measurement of the Ratio of Branching Fractions $B(B_{c1}^{\pm} \rightarrow \mu^{\pm} \pi^0)/B(B_{c1}^{\pm} \rightarrow \mu^{\pm} \pi^0)$ . <i>Physical Review Letters</i> , <b>2018</b> , 120, 121801                                  | 7.4  | 109 |
| 644 | Measurement of . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2010</b> , 694, 209-216   | 4.2  | 107 |
| 643 | Test of lepton flavor universality by the measurement of the $B^0 \rightarrow D^{*0} \mu^{\pm} \mu^{\mp}$ branching fraction using three-prong $\mu$ decays. <i>Physical Review D</i> , <b>2018</b> , 97,                               | 4.9  | 106 |

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| 642 | Measurement of the $B_{s^0} \rightarrow B^+ \pi^-$ Branching Fraction and Effective Lifetime and Search for $B^0 \rightarrow B^+ \pi^-$ Decays. <i>Physical Review Letters</i> , <b>2017</b> , 118, 191801               | 7.4 | 106 |
| 641 | Measurement of b hadron production fractions in 7 TeV pp collisions. <i>Physical Review D</i> , <b>2012</b> , 85,  | 4.9 | 105 |
| 640 | Observation of . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2012</b> , 707, 52-59  | 4.2 | 104 |
| 639 | Differential branching fraction and angular analysis of the decay $B^0 \rightarrow \pi^+ \pi^-$ . <i>Journal of High Energy Physics</i> , <b>2013</b> , 2013, 1  | 5.4 | 99  |
| 638 | Observation of $J/\psi$ Structures Consistent with Exotic States from Amplitude Analysis of $B^+ \rightarrow \pi^+ \pi^0 K^0$ Decays. <i>Physical Review Letters</i> , <b>2017</b> , 118, 022003                         | 7.4 | 98  |
| 637 | Measurement of the CP-violating phase $\phi(s)$ in the decay $B(s)(0) \rightarrow \pi^0 \pi^0$ . <i>Physical Review Letters</i> , <b>2012</b> , 108, 101803  | 7.4 | 95  |
| 636 | Evidence for Exotic Hadron Contributions to $B^0 \rightarrow \pi^+ \pi^-$ Decays. <i>Physical Review Letters</i> , <b>2016</b> , 117, 082003   | 7.4 | 91  |
| 635 | Measurement of $\rho$ / polarization in collisions at [Formula: see text]. <i>European Physical Journal C</i> , <b>2013</b> , 73, 2631   | 4.2 | 87  |
| 634 | Differential branching fraction and angular analysis of the decay $(B_{s^0} \rightarrow \pi^+ \pi^-)$ . <i>Journal of High Energy Physics</i> , <b>2013</b> , 2013, 1  | 5.4 | 86  |
| 633 | Observation of double charm production involving open charm in pp collisions at $(\sqrt{s} = 7\text{ TeV})$ . <i>Journal of High Energy Physics</i> , <b>2012</b> , 2012, 1  | 5.4 | 86  |
| 632 | Model-Independent Evidence for $J/\psi$ Contributions to $B^0 \rightarrow \pi^+ \pi^-$ Decays. <i>Physical Review Letters</i> , <b>2016</b> , 117, 082002  | 7.4 | 85  |
| 631 | Exclusive $J/\psi$ and $\psi(2S)$ production in pp collisions at $\sqrt{s} = 7\text{ TeV}$ . <i>Journal of Physics G: Nuclear and Particle Physics</i> , <b>2013</b> , 40, 045001  | 2.9 | 85  |
| 630 | Measurement of production in collisions at [Formula: see text]. <i>European Physical Journal C</i> , <b>2012</b> , 72, 2025  | 4.2 | 83  |
| 629 | Measurement of the track reconstruction efficiency at LHCb. <i>Journal of Instrumentation</i> , <b>2015</b> , 10, P02007-P02007  | 7.4 | 83  |
| 628 | Updated measurements of exclusive $J/\psi$ and $\psi(2S)$ production cross-sections in pp collisions at $\sqrt{s} = 7\text{ TeV}$ . <i>Journal of Physics G: Nuclear and Particle Physics</i> , <b>2014</b> , 41, 055002 | 2.9 | 83  |
| 627 | Search for heavy neutrinos mixing with tau neutrinos. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2001</b> , 506, 27-38   | 4.2 | 83  |
| 626 | Final NOMAD results on $B$ and $B$ -oscillations including a new search for $B$ appearance using hadronic decays. <i>Nuclear Physics B</i> , <b>2001</b> , 611, 3-39   | 2.8 | 81  |
| 625 | Determination of the quark coupling strength $ V_{ub} $ using baryonic decays. <i>Nature Physics</i> , <b>2015</b> , 11, 743-747   | 7.4 | 79  |

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|-----|--|------|----|
| 624 | Evidence for the decay . <i>Nuclear Physics B</i> , <b>2014</b> , 886, 665-680   | 2.8  | 79 |
| 623 | Precision luminosity measurements at LHCb. <i>Journal of Instrumentation</i> , <b>2014</b> , 9, P12005-P12005  | 1    | 79 |
| 622 | Measurement of the fragmentation fraction ratio $f_s/f_d$ and its dependence on B meson kinematics. <i>Journal of High Energy Physics</i> , <b>2013</b> , 2013, 1                                  | 5.4  | 78 |
| 621 | First observation of CP violation in the decays of B(s)0 mesons. <i>Physical Review Letters</i> , <b>2013</b> , 110, 221601  | 7.4  | 78 |
| 620 | Search for Dark Photons Produced in 13 TeV pp Collisions. <i>Physical Review Letters</i> , <b>2018</b> , 120, 061801   | 7.4  | 75 |
| 619 | Observation of structure in the J/ $\psi$ pair mass spectrum. <i>Science Bulletin</i> , <b>2020</b> , 65, 1983-1993  | 10.6 | 71 |
| 618 | Search for Majorana neutrinos in B- $\rightarrow$ $\mu^+ \mu^-$ decays. <i>Physical Review Letters</i> , <b>2014</b> , 112, 131802   | 7.4  | 70 |
| 617 | Dalitz plot analysis of Bs0 $\rightarrow$ $D^0 K^0$ decays. <i>Physical Review D</i> , <b>2014</b> , 90,   | 4.9  | 70 |
| 616 | Measurement of CP violation in the phase space of B $^0$ - $\bar{K}^0$ and B $^0$ - $\bar{K}^0$ K+ K- decays. <i>Physical Review Letters</i> , <b>2013</b> , 111, 101801                           | 7.4  | 70 |
| 615 | Observation of CP violation in B $^0$ - $\bar{D}^0$ decays. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2012</b> , 712, 203-212                   | 4.2  | 69 |
| 614 | Study of D J meson decays to D + $\pi^0$ and D *+ $\pi^0$ final states in pp collisions. <i>Journal of High Energy Physics</i> , <b>2013</b> , 2013, 1   | 5.4  | 69 |
| 613 | Observation of excited $\Lambda(0)$ baryons. <i>Physical Review Letters</i> , <b>2012</b> , 109, 172003  | 7.4  | 68 |
| 612 | Measurement of CP violation and the Bs0 meson decay width difference with Bs0 $\rightarrow$ $\pi^+ \pi^-$ and Bs0 $\rightarrow$ $\pi^0 \pi^0$ decays. <i>Physical Review D</i> , <b>2013</b> , 87, | 4.9  | 66 |
| 611 | First observation of Bs0 $\rightarrow$ $\pi^0$ (980) decays. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2011</b> , 698, 115-122                  | 4.2  | 66 |
| 610 | Measurements of prompt charm production cross-sections in pp collisions at ( $\sqrt{s}$ = 13 ) TeV. <i>Journal of High Energy Physics</i> , <b>2016</b> , 2016, 1                                  | 5.4  | 65 |
| 609 | Search for Hidden-Sector Bosons in B(0)- $\bar{K}^0$ $\rightarrow$ $\pi^+ \pi^-$ Decays. <i>Physical Review Letters</i> , <b>2015</b> , 115, 161802  | 7.4  | 65 |
| 608 | Study of the production of and hadrons in pp collisions and first measurement of the branching fraction. <i>Chinese Physics C</i> , <b>2016</b> , 40, 011001                                       | 2.2  | 65 |
| 607 | Search for Structure in the B- $\pi^0$ Invariant Mass Spectrum. <i>Physical Review Letters</i> , <b>2016</b> , 117, 152003   | 7.4  | 64 |

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| 606 | Differential branching fraction and angular analysis of the $B \rightarrow \bar{K}^* \ell^+ \ell^-$ decay. <i>Journal of High Energy Physics</i> , <b>2013</b> , 2013, 1   | 5.4 | 63 |
| 605 | Measurement of $(2)$ meson production in collisions at [Formula: see text]. <i>European Physical Journal C</i> , <b>2012</b> , 72, 2100  | 4.2 | 63 |
| 604 | Measurement of CP violation in the phase space of $B \rightarrow \bar{K}^* K^- \ell^+ \ell^-$ and $B \rightarrow \bar{K}^* \ell^+ \ell^-$ decays. <i>Physical Review Letters</i> , <b>2014</b> , 112, 011801             | 7.4 | 61 |
| 603 | Observation of overlapping spin-1 and spin-3 $D0K^*$ resonances at mass 2.86 GeV/c <sup>2</sup> . <i>Physical Review Letters</i> , <b>2014</b> , 113, 162001   | 7.4 | 61 |
| 602 | Study of $J/\psi$ production and cold nuclear matter effects in pPb collisions at $(\sqrt{s_{NN}}) = 5$ TeV. <i>Journal of High Energy Physics</i> , <b>2014</b> , 2014, 1   | 5.4 | 60 |
| 601 | Inclusive W and Z production in the forward region at $(\sqrt{s} = 7, \text{TeV})$ . <i>Journal of High Energy Physics</i> , <b>2012</b> , 2012, 1   | 5.4 | 60 |
| 600 | Search for $A^0 \rightarrow B^+ \ell^- \ell^+$ Decays. <i>Physical Review Letters</i> , <b>2020</b> , 124, 041801  | 7.4 | 60 |
| 599 | Measurement of the isospin asymmetry in $B \rightarrow \bar{K}^* \ell^+ \ell^-$ decays. <i>Journal of High Energy Physics</i> , <b>2012</b> , 2012, 1  | 5.4 | 59 |
| 598 | Analysis of the resonant components in $B \rightarrow \bar{K}^* \ell^+ \ell^-$ . <i>Physical Review D</i> , <b>2012</b> , 86,  | 4.9 | 59 |
| 597 | Measurement of the polarization in charged current interactions in the NOMAD experiment. <i>Nuclear Physics B</i> , <b>2000</b> , 588, 3-36  | 2.8 | 59 |
| 596 | Production of $J/\psi$ and $(\varphi)$ mesons in pp collisions at $(\sqrt{s}=8)$ TeV. <i>Journal of High Energy Physics</i> , <b>2013</b> , 2013, 1  | 5.4 | 58 |
| 595 | Search for the rare decays $B_{s0} \rightarrow \ell^+ \ell^-$ and $B_0 \rightarrow \ell^+ \ell^-$ . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2011</b> , 699, 330-340 | 4.2 | 58 |
| 594 | Measurement of the $\Lambda_b(0)$ , $\Lambda_b(-)$ , and $\Lambda_b((-)$ Baryon masses. <i>Physical Review Letters</i> , <b>2013</b> , 110, 182001   | 7.4 | 57 |
| 593 | Amplitude analysis of $B \rightarrow \bar{K}^* \ell^+ \ell^-$ decays. <i>Physical Review D</i> , <b>2017</b> , 95,   | 4.9 | 56 |
| 592 | Measurement of b-hadron masses. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2012</b> , 708, 241-248   | 4.2 | 55 |
| 591 | Observation of the decay $B(c)(+) \rightarrow B(s)(0) \ell^+ \ell^-$ . <i>Physical Review Letters</i> , <b>2013</b> , 111, 181801  | 7.4 | 55 |
| 590 | Determination of the sign of the decay width difference in the $B(s)(0)$ system. <i>Physical Review Letters</i> , <b>2012</b> , 108, 241801  | 7.4 | 55 |
| 589 | Search for the X(4140) state in $B \rightarrow \bar{K}^* \ell^+ \ell^-$ decays. <i>Physical Review D</i> , <b>2012</b> , 85,   | 4.9 | 55 |

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| 588 | Measurement of the production cross-section of positive pions in the collision of 8.9 GeV/c protons on beryllium. <i>European Physical Journal C</i> , <b>2007</b> , 52, 29-53  | 4.2 | 55 |
| 587 | Differential branching fraction and angular analysis of $B^0 \rightarrow \pi^0 \pi^0$ decays. <i>Journal of High Energy Physics</i> , <b>2015</b> , 2015,   | 5.4 | 54 |
| 586 | Measurement of resonant and CP components in $B^0 \rightarrow \pi^0 \pi^0$ decays. <i>Physical Review D</i> , <b>2014</b> , 89,   | 4.9 | 54 |
| 585 | A precise measurement of the muon neutrino-nucleon inclusive charged current cross section off an isoscalar target in the energy range . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2008</b> , 660, 19-25 | 4.2 | 54 |
| 584 | Measurement of the production cross-section of positive pions in pA collisions at 12.9 GeV/c. <i>Nuclear Physics B</i> , <b>2006</b> , 732, 1-45  | 2.8 | 54 |
| 583 | First Observation of the Doubly Charmed Baryon Decay $\Xi_{cc}^{++} \rightarrow \Xi_c^+ \pi^+$ . <i>Physical Review Letters</i> , <b>2018</b> , 121, 162002   | 7.4 | 54 |
| 582 | Precision measurement of CP violation in $B(S)(0) \rightarrow K^+ K^-$ decays. <i>Physical Review Letters</i> , <b>2015</b> , 114, 041801   | 7.4 | 53 |
| 581 | Dalitz plot analysis of $B^0 \rightarrow \pi^0 \pi^0$ decays. <i>Physical Review D</i> , <b>2015</b> , 92,  | 4.9 | 53 |
| 580 | Measurements of $B(c)^+$ production and mass with the $B(c)^+ \rightarrow e^+ \mu^-$ decay. <i>Physical Review Letters</i> , <b>2012</b> , 109, 232001  | 7.4 | 53 |
| 579 | Measurement of the resonant and CP components in $B^0 \rightarrow \pi^0 \pi^0$ decays. <i>Physical Review D</i> , <b>2014</b> , 90,   | 4.9 | 52 |
| 578 | Observation of CP Violation in Charm Decays. <i>Physical Review Letters</i> , <b>2019</b> , 122, 211803   | 7.4 | 51 |
| 577 | Measurement of b-hadron branching fractions for two-body decays into charmless charged hadrons. <i>Journal of High Energy Physics</i> , <b>2012</b> , 2012,   | 5.4 | 51 |
| 576 | Observation of a New $\Xi_b^0$ Resonance. <i>Physical Review Letters</i> , <b>2018</b> , 121, 072002  | 7.4 | 50 |
| 575 | First observation of the decay $B(c)^+ \rightarrow e^+ \mu^- \pi^+$ . <i>Physical Review Letters</i> , <b>2012</b> , 108, 251802  | 7.4 | 50 |
| 574 | A search for $B_s$ oscillations using the NOMAD detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>1998</b> , 431, 219-236  | 4.2 | 50 |
| 573 | Precision measurement of the $B_0 \rightarrow \pi^0 \pi^0$ oscillation frequency with the decay $B_0 \rightarrow \pi^0 \pi^0$ . <i>New Journal of Physics</i> , <b>2013</b> , 15, 053021  | 2.9 | 49 |
| 572 | Analysis of the resonant components in $B^0 \rightarrow \pi^0 \pi^0$ <i>Physical Review D</i> , <b>2013</b> , 87,   | 4.9 | 49 |
| 571 | The HARP detector at the CERN PS. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , <b>2007</b> , 571, 527-561   | 1.2 | 49 |



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| 570 | Search for long-lived scalar particles in $B^+ \rightarrow K^+ \pi^0 \pi^0$ decays. <i>Physical Review D</i> , <b>2017</b> , 95,  | 4.9 | 48 |
| 569 | Precision measurement of D meson mass differences. <i>Journal of High Energy Physics</i> , <b>2013</b> , 2013,  | 5.4 | 48 |
| 568 | Measurements of the S-wave fraction in $B^0 \rightarrow K^+ \pi^- \pi^0$ decays and the $B^0 \rightarrow K^+ (892)^0 \pi^-$ differential branching fraction. <i>Journal of High Energy Physics</i> , <b>2016</b> , 2016, 1                | 5.4 | 48 |
| 567 | Measurement of forward J/ψ production cross-sections in pp collisions at ( $\sqrt{s}=13$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2015</b> , 2015, 1   | 5.4 | 47 |
| 566 | Measurements of CP violation in the three-body phase space of charmless $B \pi$ decays. <i>Physical Review D</i> , <b>2014</b> , 90,  | 4.9 | 47 |
| 565 | Searches for Majorana neutrinos in $B \pi$ decays. <i>Physical Review D</i> , <b>2012</b> , 85,   | 4.9 | 47 |
| 564 | Measurement of CP-Averaged Observables in the $B^0 \rightarrow K^{*0} \pi^+ \pi^-$ Decay. <i>Physical Review Letters</i> , <b>2020</b> , 125, 011802  | 7.4 | 46 |
| 563 | Observation of $B_c^+ \rightarrow D_s^+ \pi^-$ and $B_c^+ \rightarrow D_s^{*+} \pi^-$ decays. <i>Physical Review D</i> , <b>2013</b> , 87,  | 4.9 | 46 |
| 562 | Measurement of B meson production cross-sections in proton-proton collisions at ( $\sqrt{s}=7$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2013</b> , 2013, 1   | 5.4 | 45 |
| 561 | Observation of $D^0$ - $\bar{D}^0$ oscillations. <i>Physical Review Letters</i> , <b>2013</b> , 110, 101802   | 7.4 | 45 |
| 560 | Prediction of neutrino fluxes in the NOMAD experiment. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , <b>2003</b> , 515, 800-828 <sup>1.2</sup> |     | 45 |
| 559 | Amplitude analysis of $B \pi \pi$ decays. <i>Physical Review D</i> , <b>2016</b> , 94,  | 4.9 | 45 |
| 558 | Measurement of the Lifetime of the Doubly Charmed Baryon $\Xi_{cc}^{++}$ . <i>Physical Review Letters</i> , <b>2018</b> , 121, 052002   | 7.4 | 44 |
| 557 | Precision measurement of the ratio of the . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2014</b> , 734, 122-130  | 4.2 | 43 |
| 556 | Measurement of the cross-section for $Z \rightarrow e^+ e^-$ production in pp collisions at ( $\sqrt{s}=7$ ) TeV. <i>Journal of High Energy Physics</i> , <b>2013</b> , 2013, 1   | 5.4 | 43 |
| 555 | First evidence of direct CP violation in charmless two-body decays of $B_s^0$ mesons. <i>Physical Review Letters</i> , <b>2012</b> , 108, 201601  | 7.4 | 43 |
| 554 | Observation of a resonance in $B^+ \rightarrow K^+ \pi^0 \pi^0$ decays at low recoil. <i>Physical Review Letters</i> , <b>2013</b> , 111, 112003  | 7.4 | 43 |
| 553 | Understanding KKLT from a 10d perspective. <i>Journal of High Energy Physics</i> , <b>2019</b> , 2019, 1  | 5.4 | 42 |



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| 552 | Measurement of CP asymmetry in $D^0 \rightarrow K^+ K^-$ and $D^0 \rightarrow \pi^+ \pi^-$ decays. <i>Journal of High Energy Physics</i> , <b>2014</b> , 2014, 1   | 5.4 | 42 |
| 551 | Measurement of the $B_s^0 \rightarrow \pi^0 \pi^0$ oscillation frequency $\Delta m_s$ in $B_s^0 \rightarrow \pi^0 \pi^0$ decays. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2012</b> , 709, 177-184  | 4.2 | 42 |
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| 549 | Measurement of the ratio of prompt $\pi^0$ . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2012</b> , 718, 431-440  | 4.2 | 42 |
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| 540 | Measurement of the Mass Difference Between Neutral Charm-Meson Eigenstates. <i>Physical Review Letters</i> , <b>2019</b> , 122, 231802   | 7.4 | 39 |
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| 537 | A precision measurement of charm dimuon production in neutrino interactions from the NOMAD experiment. <i>Nuclear Physics B</i> , <b>2013</b> , 876, 339-375   | 2.8 | 37 |
| 536 | Measurement of the b-Quark Production Cross Section in 7 and 13 TeV pp Collisions. <i>Physical Review Letters</i> , <b>2017</b> , 118, 052002  | 7.4 | 36 |
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| 533 | Measurement of $B_c^+$ Production in Proton-Proton Collisions at $\sqrt{s}=8$ TeV. <i>Physical Review Letters</i> , <b>2015</b> , 114, 132001  | 7.4 | 35 |
| 532 | Measurement of [Formula: see text] polarisation in [Formula: see text] collisions at [Formula: see text] = 7 TeV. <i>European Physical Journal C</i> , <b>2014</b> , 74, 2872  | 4.2 | 35 |
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| 517 | Measurement of the $\phi_1$ . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2012</b> , 713, 186-195   | 4.2 | 33 |

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| 515 | Identification of beauty and charm quark jets at LHCb. <i>Journal of Instrumentation</i> , <b>2015</b> , 10, P06013-P06013   |     | 32 |
| 514 | Measurement of the [Formula: see text] meson lifetime using [Formula: see text] decays. <i>European Physical Journal C</i> , <b>2014</b> , 74, 2839  | 4.2 | 32 |
| 513 | Precision measurement of the $B(0)$ baryon lifetime. <i>Physical Review Letters</i> , <b>2013</b> , 111, 102003  | 7.4 | 32 |
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| 487 | Study of $(\varphi)$ production and cold nuclear matter effects in pPb collisions at $(\sqrt{s_{NN}}) = 5$ TeV. <i>Journal of High Energy Physics</i> , <b>2014</b> , 2014, 1  | 5.4 | 27 |
| 486 | Searches for violation of lepton flavour and baryon number in tau lepton decays at LHCb. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2013</b> , 724, 36-45  | 4.2 | 27 |
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| 484 | Measurement of the production of charged pions by protons on a tantalum target. <i>European Physical Journal C</i> , <b>2007</b> , 51, 787-824   | 4.2 | 27 |
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| 482 | Measurement of b hadron fractions in 13 TeV pp collisions. <i>Physical Review D</i> , <b>2019</b> , 100,   | 4.9 | 26 |
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| 126 | Measurement of $\psi(2S)$ production cross-sections in proton-proton collisions at $\sqrt{s}=7$ and $13$ TeV. <i>European Physical Journal C</i> , <b>2020</b> , 80,  | 4-2 | 4 |
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| 90  | Measurement of Charged Hadron Production in Z-Tagged Jets in Proton-Proton Collisions at $\sqrt{s}=8$ TeV. <i>Physical Review Letters</i> , <b>2019</b> , 123, 232001  | 7.4 | 3 |
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| 64 | Measurement of the branching fraction of the $(B^0 \rightarrow D^+_{s1} \pi^-)$ decay. <i>European Physical Journal C</i> , <b>2021</b> , 81, 1   | 4.2 | 2 |
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| 61 | Measurement of Z $\rightarrow b\bar{b}$ production in proton-proton collisions at $(\sqrt{s}=8)$ TeV. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1   | 5.4 | 2 |
| 60 | Measurement of CP violation in $B^0 \rightarrow D^+ D^-$ decays. <i>Journal of High Energy Physics</i> , <b>2018</b> , 2018, 1  | 5.4 | 2 |
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| 54 | First observation of the decay $B^0 \rightarrow D^0 K^0$ . <i>Physical Review D</i> , <b>2020</b> , 102,  | 4.9 | 1 |
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