

Publications P2IO 2018 :

- A. Verdier, S. Spadola, L. Pinot et al., "**Gamma-background rejection method for a dual scintillator positron probe dedicated to radio-guided surgery**", *Nuclear Instruments and Methods in Physics Research Section A: Accelerators, Spectrometers, Detectors and Associated Equipment*, Vol. 912, 21 December 2018, <https://doi.org/10.1016/j.nima.2017.12.001>
- M. Alokhina, C. Canot, O. Bezshyyko et al., "**Simulation and optimization of the Cherenkov TOF whole-body PET scanner**", *Nuclear Instruments and Methods in Physics Research Section A: Accelerators, Spectrometers, Detectors and Associated Equipment*, Vol. 912, 21 December 2018, <https://doi.org/10.1016/j.nima.2018.01.027>
- R. Aaij et al. (LHCb Collaboration), "**Evidence for an $\eta_c(1S)\pi^-$ resonance in $B^0 \rightarrow \eta_c(1S)K^+\pi^-$ decays**", *Eur. Phys. J. C* (2018) 78:1019, <https://doi.org/10.1140/epjc/s10052-018-6447-z>
- R. Aaij et al. (LHCb Collaboration), "**Search for lepton-flavour-violating decays of Higgs-like bosons**", *Eur. Phys. J. C* (2018) 78:1008, <https://doi.org/10.1140/epjc/s10052-018-6386-8>
- R. Aaij et al. (LHCb Collaboration), "**Search for CP violation in $\Lambda_b^0 \rightarrow pK^-$ and $\Lambda_b^0 \rightarrow p\pi^-$ decays**", *Physics Letters B*, Vol. 787, 10 December 2018, <https://doi.org/10.1016/j.physletb.2018.10.039>
- P. Romano, S. Vercellone, L. Foschini, F. Tavecchio, M. Landoni and J. Knodlseder, "**Prospects for gamma-ray observations of narrow-line Seyfert 1 galaxies with the Cherenkov Telescope Array**", *MNRAS* 481, 5046–5061 (2018), <https://doi.org/10.1093/mnras/sty2484>
- R. Maisonobe et al., (EDELWEISS Collaboration), "**Status and Prospects of the EDELWEISS-III Direct WIMP Search Experiment**", *J Low Temp Phys* 193, 1129–1136 (2018), <https://doi.org/10.1007/s10909-018-1921-4>
- C. Danielski, J-L Baudino, P-O Lagage et al., "**Atmospheric Characterization of Directly Imaged Exoplanets with JWST/MIRI**", *AJ* 156 276 2018, <https://doi.org/10.3847/1538-3881/aae651>
- R. Aaij et al. (LHCb Collaboration), "**Study of Υ production in pPb collisions at $\sqrt{s_{NN}}=8.16$ TeV**", *J. High Energ. Phys.* 2018, 194 (2018), [https://doi.org/10.1007/JHEP11\(2018\)194](https://doi.org/10.1007/JHEP11(2018)194)
- R. Aaij et al. (LHCb Collaboration), "**Measurement of Antiproton Production in p-He Collisions at $\sqrt{s_{NN}}=110$ GeV**", *Phys. Rev. Lett.* 121, 222001 – Published 29 November 2018, <https://doi.org/10.1103/PhysRevLett.121.222001>
- G. Duplančić, K. Passek-Kumerički, B. Pire et al., "**Probing axial quark generalized parton distributions through exclusive photoproduction of a $\gamma\pi^\pm$ pair with a large invariant mass**", *J. High Energ. Phys.* 2018, 179 (2018), [https://doi.org/10.1007/JHEP11\(2018\)179](https://doi.org/10.1007/JHEP11(2018)179)

- S. Bahamonde, C. G. Böhmer, S. Carloni et al., "**Dynamical systems applied to cosmology: Dark energy and modified gravity**", *Physics Reports Vol. 775–777*, 24 November 2018, <https://doi.org/10.1016/j.physrep.2018.09.001>
- A. Maitrallain, T.L. Audet, S. Dobosz Dufrénoy et al., "**Transport and analysis of electron beams from a laser wakefield accelerator in the 100 MeV energy range with a dedicated magnetic line**", *Nuclear Instruments and Methods in Physics Research Section A: Accelerators, Spectrometers, Detectors and Associated Equipment*, Vol. 908, 11 November 2018, <https://doi.org/10.1016/j.nima.2018.08.004>
- M. Assié, A. Matta, B. Le Crom et al., "**New methods to identify low energy ^3He with Silicon-based detectors**", *Nuclear Instruments and Methods in Physics Research Section A: Accelerators, Spectrometers, Detectors and Associated Equipment* Vol. 908, 11 November 2018, <https://doi.org/10.1016/j.nima.2018.08.050>
- M. Aghasyan et al., "**Light isovector resonances in $\pi^- p \rightarrow \pi^- \pi^- \pi^+ p$ at 190 GeV/c**", *Phys. Rev. D* 98, 092003 – Published 2 November 2018, <https://doi.org/10.1103/PhysRevD.98.092003>
- R. Aaij et al. (LHCb Collaboration), "**Observation of the decay $B_s^0 \rightarrow D^0 K^+ K^-$** ", *Phys. Rev. D* 98, 072006 – Published 31 October 2018, <https://doi.org/10.1103/PhysRevD.98.072006>
- E. Armengaud et al. (EDELWEISS Collaboration), "**Searches for electron interactions induced by new physics in the EDELWEISS-III germanium bolometers**", *Phys. Rev. D* 98, 082004 – Published 31 October 2018, <https://doi.org/10.1103/PhysRevD.98.082004>
- R. Aaij et al. (LHCb Collaboration), "**Observation of $B_s^0 \rightarrow D^{*0} \phi$ and search for $B^0 \rightarrow D^0 \phi$ decays**", *Phys. Rev. D* 98, 071103(R) – Published 30 October 2018, <https://doi.org/10.1103/PhysRevD.98.071103>
- H. Almazán et al. (STEREO Collaboration), "**Sterile Neutrino Constraints from the STEREO Experiment with 66 Days of Reactor-On Data**", *Phys. Rev. Lett.* 121, 161801 – Published 17 October 2018, <https://doi.org/10.1103/PhysRevLett.121.161801>
- S. Dolan, U. Mosel, K. Gallmeister, L. Pickering, and S. Bolognesi, "**Sensitivity of neutrino-nucleus interaction measurements to 2p2h excitations**", *Phys. Rev. C* 98, 045502 – Published 15 October 2018, <https://doi.org/10.1103/PhysRevC.98.045502>
- R. Aaij et al. (LHCb Collaboration), "**Search for beautiful tetraquarks in the $\Upsilon(1S) \mu^+ \mu^-$ invariant-mass spectrum**", *J. High Energ. Phys.* 2018, 86 (2018), [https://doi.org/10.1007/JHEP10\(2018\)086](https://doi.org/10.1007/JHEP10(2018)086)
- G. Morello, "**A SEA BASS on the Exoplanet HD 209458b**", *AJ* 156 175 2018, <https://doi.org/10.3847/1538-3881/aadda4>

- R. Aaij et al. (LHCb Collaboration), "**Measurement of $Z \rightarrow \tau^+\tau^-$ production in proton-proton collisions at $\sqrt{s}=8$ TeV**", *J. High Energ. Phys.* 2018, 159 (2018), [https://doi.org/10.1007/JHEP09\(2018\)159](https://doi.org/10.1007/JHEP09(2018)159)
- R. Aaij et al. (LHCb Collaboration), "**Search for a dimuon resonance in the Υ mass region**", *J. High Energ. Phys.* 2018, 147 (2018), [https://doi.org/10.1007/JHEP09\(2018\)147](https://doi.org/10.1007/JHEP09(2018)147)
- M. Diakaki, E. Berthoumieux, T. Papaevangelou, F. Gunsing et al., "**Development of a novel segmented mesh MicroMegas detector for neutron beam profiling**", *Nuclear Instruments and Methods in Physics Research Section A: Accelerators, Spectrometers, Detectors and Associated Equipment*, Vol. 903, 21 September 2018, <https://doi.org/10.1016/j.nima.2018.06.019>
- M. B. Barbaro, A. De Pace, T. W. Donnelly, J. A. Caballero, G. D. Megias, and J. W. Van Orden, "**Asymmetric relativistic Fermi gas model for quasielastic lepton-nucleus scattering**", *Phys. Rev. C* 98, 035501 – Published 4 September 2018, <https://doi.org/10.1103/PhysRevC.98.035501>
- R. Brunetto, C. Lantz, Z. Dionnet et al., "**Hyperspectral FTIR imaging of irradiated carbonaceous meteorites**", *Planetary and Space Science*, Vol. 158, 1 September 2018, <https://doi.org/10.1016/j.pss.2018.05.008>
- R. Aaij et al. (LHCb Collaboration), "**Measurement of the Ω_c^0 Baryon Lifetime**", *Phys. Rev. Lett.* 121, 092003 – Published 31 August 2018, <https://doi.org/10.1103/PhysRevLett.121.092003>
- R. Aaij et al. (LHCb Collaboration), "**Measurement of Angular and CP Asymmetries in $D^0 \rightarrow \pi^+\pi^-\mu^+\mu^-$ and $D^0 \rightarrow K^+K^-\mu^+\mu^-$ Decays**", *Phys. Rev. Lett.* 121, 091801 – Published 30 August 2018, <https://doi.org/10.1103/PhysRevLett.121.091801>
- D. Kroff and U. Reinosa, "**Gribov-Zwanziger type model action invariant under background gauge transformations**", *Phys. Rev. D* 98, 034029 – Published 30 August 2018, <https://doi.org/10.1103/PhysRevD.98.034029>
- R. Aaij et al. (LHCb Collaboration), "**Observation of the decay $B_s^0 \rightarrow \chi_{c2} K^+ K^-$ in the ϕ mass region**", *J. High Energ. Phys.* 2018, 191 (2018) [https://doi.org/10.1007/JHEP08\(2018\)191](https://doi.org/10.1007/JHEP08(2018)191)
- R. Aaij et al. (LHCb Collaboration), "**Measurement of forward top pair production in the dilepton channel in pp collisions at $\sqrt{s}=13$ TeV**", *J. High Energ. Phys.* 2018, 174 (2018), [https://doi.org/10.1007/JHEP08\(2018\)174](https://doi.org/10.1007/JHEP08(2018)174)
- R. Aaij et al. (LHCb Collaboration), "**Measurement of the CKM angle γ using $B^\pm \rightarrow DK^\pm$ with $D \rightarrow K^0_s \pi^+ \pi^-$, $K^0_s K^+ K^-$ decays**", *J. High Energ. Phys.* 2018, 176 (2018), [https://doi.org/10.1007/JHEP08\(2018\)176](https://doi.org/10.1007/JHEP08(2018)176)
- R. Aaij et al. (LHCb Collaboration), "**Observation of the decay $\Lambda_b^0 \rightarrow \psi(2S) p \pi^-$** ", *J. High Energ. Phys.* 2018, 131 (2018), [https://doi.org/10.1007/JHEP08\(2018\)131](https://doi.org/10.1007/JHEP08(2018)131)

- R. Aaij et al. (LHCb Collaboration), "**Observation of a New Ξ^-_b Resonance**", *Phys. Rev. Lett.* 121, 072002 – Published 15 August 2018, <https://doi.org/10.1103/PhysRevLett.121.072002>
- R. Aaij et al. (LHCb Collaboration), "**Measurement of CP asymmetries in two-body $B^0_{(s)}$ -meson decays to charged pions and kaons**", *Phys. Rev. D* 98, 032004 – Published 10 August 2018, <https://doi.org/10.1103/PhysRevD.98.032004>
- COMPASS Collaboration, "**Search for muoproduction of $X(3872)$ at COMPASS and indication of a new state $\tilde{X}(3872)$** ", *Physics Letters B*, Volume 783, 10 August 2018, Pages 334-340, <https://doi.org/10.1016/j.physletb.2018.07.008>
- S. J. Brodsky, K. Yu-Ju Chiu et al., "**The gluon and charm content of the deuteron**", *Physics Letters B*, Vol. 783, 10 August 2018, Pages 287-293, <https://doi.org/10.1016/j.physletb.2018.06.070>
- R. Aaij et al. (LHCb Collaboration), "**Search for CP violation using triple product asymmetries in $\Lambda^0_b \rightarrow pK^-\pi^+\pi^-$, $\Lambda^0_b \rightarrow pK^-K^+K^-$ and $\Xi^0_b \rightarrow pK^-K^-\pi^+$ decays**", *J. High Energ. Phys.* 2018, 39 (2018), [https://doi.org/10.1007/JHEP08\(2018\)039](https://doi.org/10.1007/JHEP08(2018)039)
- R. Aaij et al. (LHCb Collaboration), "**Measurement of D^{\pm}_s production asymmetry in pp collisions at $\sqrt{s}=7$ and 8 TeV**", *J. High Energ. Phys.* 2018, 8 (2018), [https://doi.org/10.1007/JHEP08\(2018\)008](https://doi.org/10.1007/JHEP08(2018)008)
- R. Aaij et al. (LHCb Collaboration), "**Measurement of Υ production in pp collisions at $\sqrt{s}=13$ TeV**", *J. High Energ. Phys.* 2018, 134 (2018), [https://doi.org/10.1007/JHEP07\(2018\)134](https://doi.org/10.1007/JHEP07(2018)134)
- P. Ghosh, I. Lara, D. E. López-Fogliani et al., "**Searching for left sneutrino LSP at the LHC**", *International Journal of Modern Physics A* Vol. 33, No. 18n19, 1850110 (2018), <https://doi.org/10.1142/S0217751X18501105>
- R. Aaij et al. (LHCb Collaboration), "**Evidence for the decay $B^0_s \rightarrow K^{*-0}\mu^+\mu^-$** ", *J. High Energ. Phys.* 2018, 20 (2018), [https://doi.org/10.1007/JHEP07\(2018\)020](https://doi.org/10.1007/JHEP07(2018)020)
- N. Allemandoua, H. Almazánb, P. del Amo Sanchez et al., "**The STEREO experiment**", *JINST* 13 P07009 2018, <https://doi.org/10.1088/1748-0221/13/07/P07009>
- R. Aaij et al. (LHCb Collaboration), "**Amplitude Analysis of the Decay $B^0 \rightarrow K^0_S \pi^+ \pi^-$ and First Observation of the CP Asymmetry in $B^0 \rightarrow K^*(892)^- \pi^+$** ", *Phys. Rev. Lett.* 120, 261801 – Published 25 June 2018, <https://doi.org/10.1103/PhysRevLett.120.261801>
- R. Aaij et al. (LHCb Collaboration), "**Measurement of CP violation in $B^0 \rightarrow D^{\mp} \pi^{\pm}$ decays**", *J. High Energ. Phys.* 2018, 84 (2018), [https://doi.org/10.1007/JHEP06\(2018\)084](https://doi.org/10.1007/JHEP06(2018)084)

- R. Aaij et al. (LHCb Collaboration), "**Studies of the resonance structure in $D^0 \rightarrow K^{\mp}\pi^+\pi^+\pi^{\mp}$ decays**", *Eur. Phys. J. C* (2018) 78:443, <https://doi.org/10.1140/epjc/s10052-018-5758-4>
- M. Alexandera, W. Barterb, A. Bayc et al., "**Mapping the material in the LHCb vertex locator using secondary hadronic interactions**", *2018 JINST 13 P06008*, <https://doi.org/10.1088/1748-0221/13/06/P06008>
- P. Zarrouk, E. Burtin, H. Gil-Marín, A. J. Ross et al., "**The clustering of the SDSS-IV extended Baryon Oscillation Spectroscopic Survey DR14 quasar sample: measurement of the growth rate of structure from the anisotropic correlation function between redshift 0.8 and 2.2**", *MNRAS* 477, 1639–1663 (2018), <https://doi.org/10.1093/mnras/sty506>
- R. Aaij et al. (LHCb Collaboration), "**Evidence for the Rare Decay $\Sigma^+ \rightarrow p\mu^+\mu^-$** ", *Phys. Rev. Lett.* 120, 221803 – Published 31 May 2018, <https://doi.org/10.1103/PhysRevLett.120.221803>
- R. Aaij et al. (LHCb Collaboration), "**Measurement of the CP asymmetry in $B^- \rightarrow D^-_s D^0$ and $B^- \rightarrow D^- D^0$ decays**", *J. High Energ. Phys.* 2018, 160 (2018), [https://doi.org/10.1007/JHEP05\(2018\)160](https://doi.org/10.1007/JHEP05(2018)160)
- R. Aaij et al. (LHCb Collaboration), "**Search for the rare decay $\Lambda^+_c \rightarrow p\mu^+\mu^-$** ", *Phys. Rev. D* 97, 091101(R) – Published 4 May 2018, <https://doi.org/10.1103/PhysRevD.97.091101>
- R. Aaij et al. (LHCb Collaboration), "**Search for B^+_c decays to two charm mesons**", *Nuclear Physics B, Vol. 930, May 2018, Pages 563-582*, <https://doi.org/10.1016/j.nuclphysb.2018.03.015>
- J. Varela, "**Parametric study and optimization trends for the Von-Kármán-sodium dynamo experiment**", *Physics of Plasmas* 25, 053501 (2018), <https://doi.org/10.1063/1.5019691>
- R. Aaij et al. (LHCb Collaboration), "**Test of lepton flavor universality by the measurement of the $B^0 \rightarrow D^{*-}\tau^+\nu_\tau$ branching fraction using three-prong τ decays**", *Phys. Rev. D* 97, 072013 – Published 25 April 2018, <https://doi.org/10.1103/PhysRevD.97.072013>
- R. Aaij et al. (LHCb Collaboration), "**Measurement of the Ratio of the $B^0 \rightarrow D^{*-}\tau^+\nu_\tau$ and $B^0 \rightarrow D^{*-}\mu^+\nu_\mu$ Branching Fractions Using Three-Prong τ -Lepton Decays**", *Phys. Rev. Lett.* 120, 171802 – Published 25 April 2018, <https://doi.org/10.1103/PhysRevLett.120.171802>
- M. Crisostomi, K. Koyama, "**Self-accelerating universe in scalar-tensor theories after GW170817**", *Phys.Rev.D*, 2018, 97 (8), pp.084004, <https://doi.org/10.1103/PhysRevD.97.084004>

- R. Aaij et al. (LHCb Collaboration), "**A measurement of the CP asymmetry difference between $\Lambda^+_c \rightarrow pK^-K^+$ and $p\pi^-\pi^+$ decays**", *J. High Energ. Phys.* 2018, 182 (2018), [https://doi.org/10.1007/JHEP03\(2018\)182](https://doi.org/10.1007/JHEP03(2018)182)
- R. Aaij et al. (LHCb Collaboration), "**First measurement of the CP-violating phase $\phi^{dd^*}_s$ in $B^0_s \rightarrow (K^+\pi^-)(K^-\pi^+)$ decays**", *J. High Energ. Phys.* 2018, 140 (2018), [https://doi.org/10.1007/JHEP03\(2018\)140](https://doi.org/10.1007/JHEP03(2018)140)
- R. Aaij et al. (LHCb Collaboration), "**Measurement of the Ratio of Branching Fractions $B(B^+_c \rightarrow J/\psi\tau^+\nu_\tau)/B(B^+_c \rightarrow J/\psi\mu^+\nu_\mu)$** ", *Phys. Rev. Lett.* 120, 121801 – Published 23 March 2018, <https://doi.org/10.1103/PhysRevLett.120.121801>
- R. Aaij et al. (LHCb Collaboration), "**Search for the lepton-flavour violating decays $B^0_{(s)} \rightarrow e^\pm\mu^\mp$** ", *J. High Energ. Phys.* 2018, 78 (2018), [https://doi.org/10.1007/JHEP03\(2018\)078](https://doi.org/10.1007/JHEP03(2018)078)
- R. Aaij et al. (LHCb Collaboration), "**Measurement of CP asymmetry in $B^0_s \rightarrow D^{\mp}_s K^\pm$ decays**", *J. High Energ. Phys.* 2018, 59 (2018), [https://doi.org/10.1007/JHEP03\(2018\)059](https://doi.org/10.1007/JHEP03(2018)059)
- G. Arcadi, M. Dutra, Pr. Ghosh et al., "**The waning of the WIMP? A review of models, searches, and constraints**", *Eur. Phys. J. C* (2018) 78:203, <https://doi.org/10.1140/epjc/s10052-018-5662-y>
- R. Aaij et al. (LHCb Collaboration), "**Measurements of the branching fractions of $\Lambda^+_c \rightarrow p\pi^-\pi^+$, $\Lambda^+_c \rightarrow pK^-K^+$, and $\Lambda^+_c \rightarrow p\pi^-K^+$** ", *J. High Energ. Phys.* 2018, 43 (2018), [https://doi.org/10.1007/JHEP03\(2018\)043](https://doi.org/10.1007/JHEP03(2018)043)
- F. Magniette and A. Irlles, "**Pyrame 3, an online framework for Calice SiW-Ecal**", 2018 *JINST* 13 C03009, <https://doi.org/10.1088/1748-0221/13/03/C03009>
- R. Aaij et al. (LHCb Collaboration), "**Updated determination of D^0 - \bar{D}^0 mixing and CP violation parameters with $D^0 \rightarrow K^+\pi^-$ decays**", *Phys. Rev. D* 97, 031101(R) – Published 22 February 2018, <https://doi.org/10.1103/PhysRevD.97.031101>
- R. Aaij et al. (LHCb Collaboration), "**Measurement of branching fractions of charmless four-body Λ^0_b and Ξ^0_b decays**", *J. High Energ. Phys.* 2018, 98 (2018), [https://doi.org/10.1007/JHEP02\(2018\)098](https://doi.org/10.1007/JHEP02(2018)098)
- R. Aaij et al. (LHCb Collaboration), "**Search for weakly decaying b-flavored pentaquarks**", *Phys. Rev. D* 97, 032010 – Published 16 February 2018, <https://doi.org/10.1103/PhysRevD.97.032010>
- R. Aaij et al. (LHCb Collaboration), "**Measurement of CP observables in $B^\pm \rightarrow D^{(*)}K^\pm$ and $B^\pm \rightarrow D^{(*)}\pi^\pm$ decays**", *Physics Letters B*, Vol. 777, 10 February 2018, Pages 16-30, <https://doi.org/10.1016/j.physletb.2017.11.070>
- R. Aaij et al. (LHCb Collaboration), "**Search for Dark Photons Produced in 13 TeV pp Collisions**", *Phys. Rev. Lett.* 120, 061801 – Published 8 February 2018, <https://doi.org/10.1103/PhysRevLett.120.061801>

- J. Dutta, W. Khyllep et al., "**Cosmological dynamics of mimetic gravity**", *JCAP02(2018)041*, <https://doi.org/10.1088/1475-7516/2018/02/041>
- M. Ata, F. Baumgarten, J. Bautista et al., "**The clustering of the SDSS-IV extended Baryon Oscillation Spectroscopic Survey DR14 quasar sample: first measurement of baryon acoustic oscillations between redshift 0.8 and 2.2**", *Monthly Notices of the Royal Astronomical Society, Volume 473, Issue 4, February 2018, Pages 4773–4794*, <https://doi.org/10.1093/mnras/stx2630>
- A. Lobanov, "**Electronics and triggering challenges for the CMS High Granularity Calorimeter**", *2018 JINST 13 C02056*, <https://doi.org/10.1088/1748-0221/13/02/C02056>
- A. Irlles, "**Latest R&D news and beam test performance of the highly granular SiW-ECAL technological prototype for the ILC**", *2018 JINST 13 C02038*, <https://doi.org/10.1088/1748-0221/13/02/C02038>
- JB. Sauvan (CMS Collaboration), "**The CMS High Granularity Calorimeter for the High Luminosity LHC**", *JINST 13 C02043*, <https://doi.org/10.1088/1748-0221/13/02/C02043>
- R. Aaij et al. (LHCb Collaboration), "**Search for excited B^+_c states**", *J. High Energ. Phys. 2018, 138 (2018)*, [https://doi.org/10.1007/JHEP01\(2018\)138](https://doi.org/10.1007/JHEP01(2018)138)
- R. Aaij et al. (LHCb Collaboration), "**First observation of $B^+ \rightarrow D^+_s K^+ K^-$ decays and a search for $B^+ \rightarrow D^+_s \phi$ decays**", *J. High Energ. Phys. 2018, 131 (2018)*, [https://doi.org/10.1007/JHEP01\(2018\)131](https://doi.org/10.1007/JHEP01(2018)131)
- R. Boussarie, B. Ducloué, L. Szymanowski, and S. Wallon, "**Forward J/ψ and very backward jet inclusive production at the LHC**", *Phys. Rev. D 97, 014008 – Published 19 January 2018*, <https://doi.org/10.1103/PhysRevD.97.014008>
- Q. Arnaud et al. (EDELWEISS Collaboration), "**Optimizing EDELWEISS detectors for low-mass WIMP searches**", *Phys. Rev. D 97, 022003 – Published 18 January 2018*, <https://doi.org/10.1103/PhysRevD.97.022003>
- M. Crisostomi and K. Koyama, "**Vainshtein mechanism after GW170817**", *Phys. Rev. D 97, 021301(R) – Published 12 January 2018*, <https://doi.org/10.1103/PhysRevD.97.021301>
- R. Aaij et al. (LHCb Collaboration), "**First observation of forward $Z \rightarrow b\bar{b}$ production in pp collisions at $\sqrt{s}=8$ TeV**", *Physics Letters B, Vol. 776, 10 January 2018, Pages 430-439*, <https://doi.org/10.1016/j.physletb.2017.11.066>
- J-B Durrive, H. Tashiro, M. Langer and N. Sugiyama, "**Mean Energy Density of Photogenerated Magnetic Fields Throughout the EoR**", *Peering towards Cosmic Dawn, Proceedings IAU Symposium No. 333, 2018*
- G. Jogo, X. de la Broise et al., "**High impedance Transition Edge Sensors with classical readout electronics: a new scheme toward large x-ray matrices**", *SPACE*

TELESCOPES AND INSTRUMENTATION 2018: ULTRAVIOLET TO GAMMA RAY,
<https://doi.org/10.1117/12.2315624>

- J. Dutta, Wo. Khylllep and N. Tamanini, "**Dark energy with a gradient coupling to the dark matter fluid: cosmological dynamics and structure formation**", *JCAP01(2018)038*, <https://doi.org/10.1088/1475-7516/2018/01/038>
- L. Massacrier et al., "**Physics perspectives with AFTER@LHC (A Fixed Target Experiment at LHC)**", *EPJ Web of Conferences 171, 10001 (2018) SQM 2017*, <https://doi.org/10.1051/epjconf/201817110001>
- C. G. Böhrmer, N. Tamanini and M. Wright, "**On galaxy rotation curves from a continuum mechanics approach to modified gravity**", *International Journal of Modern Physics D, Vol. 27, No. 02, 1850007 (2018)*, <https://doi.org/10.1142/S0218271818500074>
- A. Minotti, "**Chasing the light sterile neutrino: status of the STEREO experiment**", *2018 J. Phys.: Conf. Ser. 1056 012038*, <https://doi.org/10.1088/1742-6596/1056/1/012038>