

GAIA LANFRANCHI

LIST OF MAIN PUBLICATIONS IN THE LAST 10 years (only publications with personal contribution, in chronological order)

Last update: March 2020

1. R. K. Ellis et al.,
Physics Briefing Book: Input for the European Strategy for Particle Physics Update 2020,
arXiv:1910.11775, 17 citations (main author).
2. J. Alimena et al.,
Searching for Long-Lived particles beyond the Standard Model at the Large Hadron Collider,
arXiv:1903.04497, 63 citations. (main author)
3. R. Alemany et al.,
Summary Report of the Physics Beyond Colliders at CERN,
arXiv:1902.00260, 21 citations (main author).
4. J. Beacham et al.,
Physics Beyond Colliders at CERN: Beyond the Standard Model Working Group Report,
arXiv:1901.09966, J. Phys. G47 (2020) no.1, 01050, 74 citations (corresponding author)
5. SHiP collaboration,
Sensitivity of the SHiP experiment to Heavy Neutral Leptons,
JHEP 1904 (2019) 077, arXiv:1811.00930
6. M. Drewes, J. Haier, J. Klaric and G. Lanfranchi,
NA62 sensitivity to Heavy Neutral Leptons in the low-scale see-saw model,
arXiv:1801.04207, JHEP 1807 (2018) 10, 45 citations.
7. T. Blake, G. Lanfranchi, D. Straub,
Rare B decays as tests of the Standard Model,
Prog. Part. Nucl. Phys. 92 (2017) 50-91 – 50 citations
8. LHCb collaboration,
*Test of lepton universality with $B^0 \rightarrow K^{*0} l^+ l^-$ decays*,
JHEP 1708 (2017) 055, arXiv:1705.05802, 579 citations. (convener working group)
9. J. Alexander et al.,
Dark Sectors 2016 Workshop: Community Report,
arXiv:1608.08632 – 317 citations. (main author)
10. LHCb collaboration,
Search for long-lived scalar particles in $B^+ \rightarrow K^0 \chi (\mu^+ \mu^-)$
Phys. Rev. D95 (2017) n.7, 071101, arXiv:1612.07818, 57 citations. (convener working group)
11. A. Andreazza et al.
What Next: White Paper of the INFN-CSNI,
Frascati Phys.Ser. 60 (2015) 1-302, 24 citations. (main author)
12. M. Anelli et al.,
A Facility to Search for Hidden Particles (SHiP) at the CERN SPS,
arXiv:1504.04956, 292 citations. (main author)
13. LHCb collaboration,
*Angular analysis of the $B^0 \rightarrow K^{*0} e^+ e^-$ decay in the low- q^2 region*,
JHEP 1504 (2015) 064, arXiv:1501.03038, 88 citations. (convener working group)

14. LHCb and CMS Collaborations,
Observation of the rare decay $B_s \rightarrow \mu^+ \mu^-$ from the combined analysis of CMS and LHCb data,
Nature 522 (2015) 68-72, arXiv:1411.4413, 513 citations (main author).
15. LHCb collaboration,
Search for the lepton flavor violating decay $\tau \rightarrow \mu^+ \mu^- \mu^-$,
JHEP 1502 (2015) 121, arXiv:1409.8549, 74 citations. (convener working group)
16. LHCb Collaboration,
Test of lepton-universality using the $B^+ \rightarrow K^+ l^+ l^-$ decays,
Phys. Rev. Lett. 113 (2014) 151601, arXiv: 1406.6482, 951 citations. (convener working group)
17. LHCb Collaboration,
Search for Majorana neutrinos in $B^- \rightarrow \pi^- \mu^+ \mu^-$ decays,
Phys. Rev. Lett. 112 (2014) no.13, 131802, arXiv:1401.5361, 118 citations (convener working group)
18. LHCb Collaboration,
*Measurement of form-factor independent observables in the decay $B^0 \rightarrow K^{*0} \mu^+ \mu^-$* ,
Phys.Rev.Lett. 111 (2013) 191801, arXiv:1308.1707, 568 citations; (convener working group)
19. LHCb collaboration,
Search for the lepton-flavor violating decays $B_s^0 \rightarrow \mu^+ e^-$ and $B^0 \rightarrow \mu^+ e^-$,
Phys. Rev. Lett. 111 (2013) 141801, arXiv:1307.4889, 55 citations. (corresponding author).
20. F. Archilli et al.,
Performance of the Muon Identification at LHCb,
JINST 8 (2013) P10020, arXiv:1306.0249, 146 citations (main author)
21. A. A. Alves et al.,
Performance of the LHCb muon system,
JINST 8 (2013) P02022, arXiv:1211.1346 (main author)
22. LHCb Collaboration,
Search for the rare decays $B_s \rightarrow \mu^+ \mu^-$ and $B^0 \rightarrow \mu^+ \mu^-$
Phys. Lett. B699 (2011) 330 - 126 citations (corresponding author);
23. LHCb Collaboration,
Search for the rare decays $B_s \rightarrow \mu^+ \mu^-$ and $B^0 \rightarrow \mu^+ \mu^-$,
Phys. Lett. B 708 (2012) 55 - 66 citations - (corresponding author);
24. LHCb Collaboration,
Strong constraints on the rare decays $B_s \rightarrow \mu^+ \mu^-$ and $B^0 \rightarrow \mu^+ \mu^-$,
Phys. Rev. Lett. 108 (2012) 231801, 277 citations – (corresponding author);
25. LHCb Collaboration,
First evidence of the decay $B_s \rightarrow \mu^+ \mu^-$,
Phys. Rev. Lett. 110 (2013) 021801, 461 citations – (corresponding author);
26. A. A. Alves et al.,
Performance of the LHCb muon system,
JINST 8 (2013) P02022, arXiv:1211.1346 – 256 citations, main contributor.
27. M. Antonelli et al.,
Flavor Physics in the Quark Sector,
Phys. Rept. 494 (2010) 197-414, arXiv:0907.5386, 316 citations, main author.