

Ермольчик Виталий Леонидович

Публикации в рецензируемых журналах:

1. В. Л. Ермольчик, Х. Г. Суарес, Н. М. Шумейко, “Электрослабые радиационные эффекты первого порядка в процессе Дрелла-Яна с заряженным током” Вестник БГУ, Сер. 1, №3, С. 3-9 (2015).
2. Y. Dydshka, V. Yermolchyk, “A new generator for the Drell-Yan process” J. Phys. Conf. Ser. 608, no. 1, 012069 (2015).
3. Y. V. Dydshka, V. L. Yermolchyk, J. G. Suarez and N. M. Shumeiko, “Investigations of the Drell-Yan process at the LHC: Results and prospects” Phys. Part. Nucl. Lett. 13, no. 3, 279 (2016).
4. Y. V. Dydshka, V. L. Yermolchyk, J. H. Suarez and N. M. Shumeiko, “LePaProGen — lepton pair production generator” Phys. Part. Nucl. 48, no. 5, 755 (2017) [Fiz. Elem. Chast. Atom. Yadra 48, no. 5 (2017)].
5. Y. V. Dydshka, V. L. Yermolchyk, V. A. Zykunov, J. H. Suarez and S. V. Shmatov, “High Order Electroweak Corrections for the Drell-Yan Process at LHC” Phys. Part. Nucl. 49, no. 4, 722 (2018).
6. A. Abada et al. [FCC Collaboration], “FCC Physics Opportunities: Future Circular Collider Conceptual Design Report Volume 1” Eur. Phys. J. C 79, no. 6, 474 (2019).
7. A. Abada et al. [FCC Collaboration], “HE-LHC: The High-Energy Large Hadron Collider Volume: Future Circular Collider Conceptual Design Report Volume 4” Eur. Phys. J. ST 228, no. 5, 1109 (2019).
8. A. Abada et al. [FCC Collaboration], “FCC-hh: The Hadron Collider: Future Circular Collider Conceptual Design Report Volume 3” Eur. Phys. J. ST 228, no. 4, 755 (2019).
9. A. Abada et al. [FCC Collaboration], “FCC-ee: The Lepton Collider: Future Circular Collider Conceptual Design Report Volume 2” Eur. Phys. J. ST 228, no. 2, 261 (2019).

10. S. Bondarenko, Y. Dydышка, L. Kalinovskaya, L. Rumyantsev, R. Sadykov and V. Yermolchyk, “One-loop electroweak radiative corrections to polarized $e^+e^- \rightarrow ZH$ ” Physical Review D 100, 073002 (2019).
11. A. Blondel et al., “Theory report on the 11th FCC-ee workshop”, arXiv:1905.05078 [hep-ph], CERN Yellow Reports: Monographs, CERN-2020-003.
12. R. Sadykov, A. Arbuzov, S. Bondarenko, Ya. Dydышка, L. Kalinovskaya, I. Novikov, V. Yermolchyk, L. Rumyantsev, “MCSANCee generator with one-loop electroweak corrections for processes with polarized e^+e^- beams”, J. Phys. Conf. Ser. 1525 012012 (2020).
13. R. Sadykov and V. Yermolchyk, “Polarized NLO EW e^+e^- cross section calculations with ReneSANCe-v1.0.0”, Comp.Phys.Comm. 256, 107445 (2020).
14. S. Bondarenko, Y. Dydышка, L. Kalinovskaya, R. Sadykov and V. Yermolchyk, “One-loop electroweak radiative corrections to lepton pair production in polarized electron-positron collisions” Physical Review D 102, no. 3, 033004 (2020).
15. A. Arbuzov, S. Bondarenko, L. Kalinovskaya, R. Sadykov and V. Yermolchyk, “Electroweak Effects in $e^+e^- \rightarrow ZH$ Process”, Symmetry 13, no. 7, 1256 (2021).
16. A. Arbuzov, S. Bondarenko, L. Kalinovskaya, L. Rumyantsev and V. Yermolchyk, “Electroweak effects in polarized muon-electron scattering”, Physical Review D 105, no. 3, 033009 (2022).
17. S. Bondarenko, L. Kalinovskaya, L. Rumyantsev and V. Yermolchyk, “One-loop electroweak radiative corrections to polarized Møller scattering”, JETP Letters 115, no. 9, 547-553 (2022).
18. А. Б. Арбузов, С. Г. Бондаренко, Е. В. Дыдышко, Л. В. Калиновская, Л. А. Румянцев, Р. Р. Садыков, В. Л. Ермольчик, Ю. В. Ермольчик, “Эффекты электрослабых радиационных поправок в процессах электрон-

позитронной аннигиляции $e^+e^- \rightarrow ll$ с учетом поляризации при низких энергиях”, Письма в ЖЭТФ 116, 4, 197 (2022).