

CURRICULUM VITAE of **Dmytro Kovalskyi**

Education

University of Maryland (College Park, MA)

Ph.D. physics 2005

Moscow Institute of Physics and Technology (Moscow, Russia)

Diploma with distinction 1998

Professional Experience

Massachusetts Institute of Technology (Cambridge, MA)

Research Scientist 2015-Present

UC San Diego (San Diego, CA)

Associate Scientist 2013-2015

CERN, European Center for High Energy Physics (Geneva, Switzerland)

Scientific Associate 2011-2012

UC Santa Barbara (Santa Barbara, CA)

Postdoctoral position 2005-2011, Scientist 2011-2013

Selected Publications

1. “Measurement of $B_s \rightarrow \mu\mu$ decay properties and search for the $B^0 \rightarrow \mu\mu$ decay in proton-proton collisions at $\sqrt{s} = 13$ TeV,” CMS-PAS-BPH-21-006 (2022)
2. A. M. Sirunyan *et al.* [CMS], “Performance of the CMS muon trigger system in proton-proton collisions at $\sqrt{s} = 13$ TeV,” JINST **16**, P07001 (2021)
3. A. M. Sirunyan *et al.* [CMS Collaboration], “Performance of the CMS muon detector and muon reconstruction with proton-proton collisions at $\sqrt{s} = 13$ TeV,” JINST **13**, no. 06, P06015 (2018)
4. A. M. Sirunyan *et al.* [CMS Collaboration], “Search for dark matter produced with an energetic jet or a hadronically decaying W or Z boson at $\sqrt{s} = 13$ TeV,” JHEP **1707**, 014 (2017)
5. V. Khachatryan *et al.* [CMS Collaboration], “Searches for invisible decays of the Higgs boson in pp collisions at $\sqrt{s} = 7, 8$, and 13 TeV,” JHEP **1702**, 135 (2017)
6. S. Chatrchyan *et al.* [CMS Collaboration], “Study of vector boson scattering and search for new physics in events with two same-sign leptons and two jets,” Phys. Rev. Lett. **114** (2015) 5, 051801.
7. S. Chatrchyan *et al.* [CMS Collaboration], “Measurement of Higgs boson production and properties in the WW decay channel with leptonic final states,” JHEP **1401** (2014) 096.
8. S. Chatrchyan *et al.* [CMS Collaboration], “Observation of a new boson at a mass of 125 GeV with the CMS experiment at the LHC,” Phys. Lett. B **716** (2012) 30.
9. D. Kovalskyi *et al.*, “Fireworks: A physics event display for CMS,” J. Phys. Conf. Ser. **219** (2010) 032014.
10. B. Aubert *et al.* [Babar Collaboration], “Measurement of the time dependent CP -violating asymmetry in $B^0 \rightarrow K_S \pi^0 \gamma$ decays,” Phys. Rev. D **72** (2005) 0511103.

Synergetic Activities

Co-coordinator of Exotic and Rare Decay Group of the CMS B-Physics group 2020-2022
Co-convenor of the CMS Muon Physics Object Group 2017-2019
Liaison between Physics and Computing projects at CMS 2015-current
Co-coordinator of Multiboson Group of the CMS Standard Physics group 2014-2015
Co-coordinator of the $H \rightarrow WW$ Group of the CMS Higgs Physics group 2012-2013
Coordinator of trigger development for the CMS Higgs Physics group 2011-2012
Coordinator of Muon Identification in the CMS Muon Physics object group 2010-2011
Leader of the data visualization project development (Fireworks) 2008-2009