Biographical Sketch for Salvatore R. Rappoccio

Address

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Professional Preparation

Harvard University	Physics 2005 Ph.D.
Boston University	Physics 2000, B.A., Mathematics 2000, B.A.

Appointments

State University of New York at Buffalo	Assistant Professor	2012-present
Johns Hopkins University	Research Assistant Professor	2011-2012
Johns Hopkins University	Research Associate	2007-2011
Lincoln Laboratories of MIT	Staff scientist	2005-2007

Products

Five most closely related to the proposal :

1. CMS Collaboration, S. Chatrchyan et al., "Search for anomalous t t-bar production in the highly-boosted all-hadronic final state," JHEP **1209** (2012) 029.
2. CMS Collaboration, S. Chatrchyan et al., "Measurement of the top quark pair Production Cross Section in pp Collisions at 7 TeV in Lepton + Jets Events Using b-quark Jet Identification," Phys. Rev. D **84**, 092004 (2011).
3. CMS Collaboration, S. Chatrchyan et al., "Studies of jet mass in dijet and W/Z + jet events," JHEP 1305 (2013) 090.
4. CMS Collaboration, S. Chatrchyan et al., "Search for heavy resonances in the W/Z-tagged dijet mass spectrum in pp collisions at 7 TeV," Accepted by Phys. Lett. B
5. Abdesselam et. al., "Boosted objects: A Probe of beyond the standard model physics," Eur.Phys.J. C **71** (2011) 1661

Synergistic Activities

1. Convener of the “Beyond Two Generations” group at CMS (2012-present) which focuses on deploying boosted top technologies to searches for BSM physics; convener of the “Standard Model Jet Substructure” subgroup at CMS (2011-2012); convener of the “Analysis Software Tools” subgroup at CMS (2009-2011).
2. Co-organizer of the “BOOST” conference series focusing on boosted topologies (2009-present). Also co-organized the “Boston Jet Substructure Workshop” in 2010.
3. Jet algorithm, data quality monitoring, and corrections development for trigger, reconstruction, and analysis of data (2008-present).
4. Particle flow software development, support, and maintenance (2010-present).
5. Extensive outreach activities at SUNY Buffalo, the Fermi National Accelerator Laboratory (FNAL) and elsewhere.

Collaborations & Other Affiliations

Member of the Compact Muon Solenoid (CMS) Collaboration : 2008-present
Member of the Collider Detector at Fermilab (CDF) Collaboration : 2000-2006

Graduate and Postdoctoral Advisors

Ph.D. Advisors : Melissa Franklin, Andrew Foland (Harvard University)
Postdoctoral Sponsors : Morris Swartz, Petar Maksimovic (Johns Hopkins University)

Thesis Advisor and Postdoctoral Scholar Sponsor

Ph.D. Thesis Advisor (6 students) :
G. Hu, K. Nash, M. Osherson, Y. Xin (Johns Hopkins University), M. Alyari, J. Kaisen (SUNY at Buffalo)

Postdoctoral Scholar Sponsor (1 postdoctoral fellow):
J. Dolen (SUNY at Buffalo)