Precise measurement of SM-EWK Z γ +jets and constraints on neutral triple gauge couplings at ATLAS and future collider with EFT approach

Saturday, 16 December 2023 14:30 (15 minutes)

This talk will present the latest results from ATLAS in the measurement of SM-EWK multiboson production process in the $Z\gamma$ +jets final states including the 1st observation of VBS $Z\gamma$ +2j at ATLAS. Also the neutral gauge boson coupling BSM phenomena is probed in such final states utilizing LHC-ATLAS Run-2 proton-proton collision dataset (ref: JHEP 07 (2023) 72 & Phys. Lett. B 846 (2023) 138222) and prospective studies for future lepton colliders (ref: arXiv:1902.06631 & arXiv:2308.16887)

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