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Publications within the VBSCan network

VBSCan preprints

- The list of our public preprint results in the inspire database can be found here [↗](#)
- The list of papers with VBSCan preprint numbers can be found in this document [↗](#), where one can also get a new preprint number for new publications.

Standalone publications and arxiv reports

- **Polarization Fraction Measurement in same sign WW scattering using Deep Learning --** Junho Lee, Nicolas Chanon, Andrew Levin, Jing Li, Meng Lu, Qiang Li, and Yajun Mao, <http://arxiv.org/abs/arXiv:1812.07591> [↗](#)
- **The CLIC Potential for New Physics --** J. de Blas et al., CERN-TH-2018-267 (2018), <http://arxiv.org/abs/arXiv:1812.02093> [↗](#)
- **Colorful Imprints of Heavy States in the Electroweak Effective Theory --** Claudius Krause, Antonio Pich, Ignasi Rosell, Joaquín Santos, Juan José Sanz-Cillero, FERMILAB-PUB-18-550-T (2018), <http://arxiv.org/abs/arXiv:1810.10544> [↗](#)
- **Anomalous quartic gauge couplings and unitarization for the vector boson scattering process $pp \rightarrow W+W+jj$ $X \rightarrow l+v$ $l+v$ jj X --** G.Perez, M. Sekulla and D. Zeppenfeld, Eur. Phys. J. C 78 (2018) no.9, <http://arxiv.org/abs/arXiv:1807.02707> [↗](#)
- **Studies of Dimension-Six EFT effects in Vector Boson Scattering --** Raquel Gomez-Ambrosio, IPPP/18/78, <http://arxiv.org/abs/arXiv:1809.04189> [↗](#)
- **Same-sign WW scattering at the LHC: can we discover BSM effects before discovering new states? --** Jan Kalinowski, Paweł Kozów, Stefan Pokorski, Janusz Rosiek, Michał Szleper, Sławomir Tkaczyk, Eur. Phys. J. C 78 (2018) 403, <http://arxiv.org/abs/arXiv:1802.02366> [↗](#)
- **Transversal Modes and Higgs Bosons in Electroweak Vector-Boson Scattering at the LHC --** Simon Brass, Wolfgang Kilian, Juergen Reuter, Marco Sekulla, Eur.Phys.J. C78 (2018) no.11, 931, <http://arxiv.org/abs/arXiv:1807.02512> [↗](#)
- **VBSCan Split 2017 Workshop Summary --** Anders, Christoph Falk and others, 2018, VBSCAN-PUB-01-17, <https://arxiv.org/abs/1801.04203> [↗](#)
- **Resonant production of Wh and Zh at the LHC --** Antonio Dobado, Felipe J. Llanes-Estrada and Sanz-Cillero, Juan J., J. High Energ. Phys. (2018) 2018: 159., <https://arxiv.org/abs/1711.10310> [↗](#)
- **Precise predictions for same-sign W-boson scattering at the LHC --** Ballestrero, Alessandro and others, 2018, Eur.Phys.J. C78 (2018) no.8, 671, VBSCan-PUB-01-18, <https://arxiv.org/abs/1803.07943> [↗](#)
- **Stress testing the vector-boson-fusion approximation in multijet final states --** Francisco Campanario, Terrance M. Figy, Simon Plätzer, Michael Rauch, Peter Schichtel, Malin Sjö Dahl, Phys.Rev. D98 (2018) no.3, 033003, <https://arxiv.org/abs/arXiv:1802.09955> [↗](#)
- **W boson polarization in vector boson scattering at the LHC--** Alessandro Ballestrero, Ezio Maina and Giovanni Pelliccioli, JHEP 1803 (2018) 170, <http://arxiv.org/abs/arXiv:1710.09339> [↗](#)

- **Collider production of electroweak resonances from states--** Rafael L. Delgado, Antonio Dobado, Miguel Espada, Felipe J. Llanes-Estrada, Ivan Leon Merino, JHEP 1811 (2018) 010, <https://arxiv.org/abs/1710.07548>

Publications within the LHC experiments

- **Observation of electroweak $W\pm Z$ boson pair production in association with two jets in pp collisions at $\sqrt{s} = 13\text{TeV}$ with the ATLAS Detector --** The ATLAS Collaboration, 2018, ATLAS-CONF-2018-033/, <https://atlas.web.cern.ch/Atlas/GROUPS/PHYSICS/CONFNOTES/ATLAS-CONF-2018-033/>
 - **Observation of electroweak production of a same-sign W boson pair in association with two jets in pp collisions at $\sqrt{s}=13\text{ TeV}$ with the ATLAS detector --** The ATLAS Collaboration, 2018, ATLAS-CONF-2018-030, <https://atlas.web.cern.ch/Atlas/GROUPS/PHYSICS/CONFNOTES/ATLAS-CONF-2018-030/>
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