

About myself



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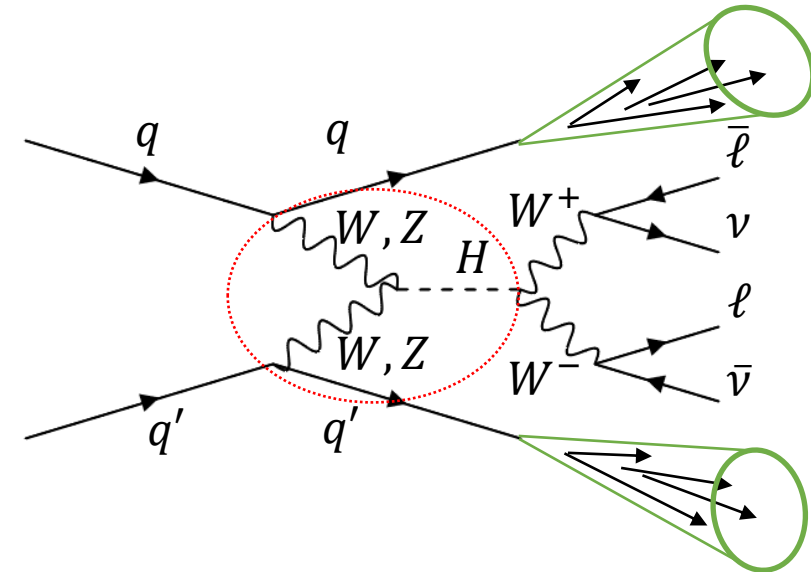


Istituto Nazionale di Fisica Nucleare
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- My name is [Mattia Lizzo](#), I am (almost) 26 y.o. and about to start my second PhD year in Particle Physics
- I have been studying [here](#) (Department of Physics and Astrophysics, University of Florence) for 5 years, where I graduated in 2019

- During my Master thesis, I worked with the $H \rightarrow W^+W^-$ group within the CMS experiment (LHC)
- My analysis targeted the **Vector Boson Fusion** (VBF) mechanism, one of the main Higgs boson production modes at hadron colliders



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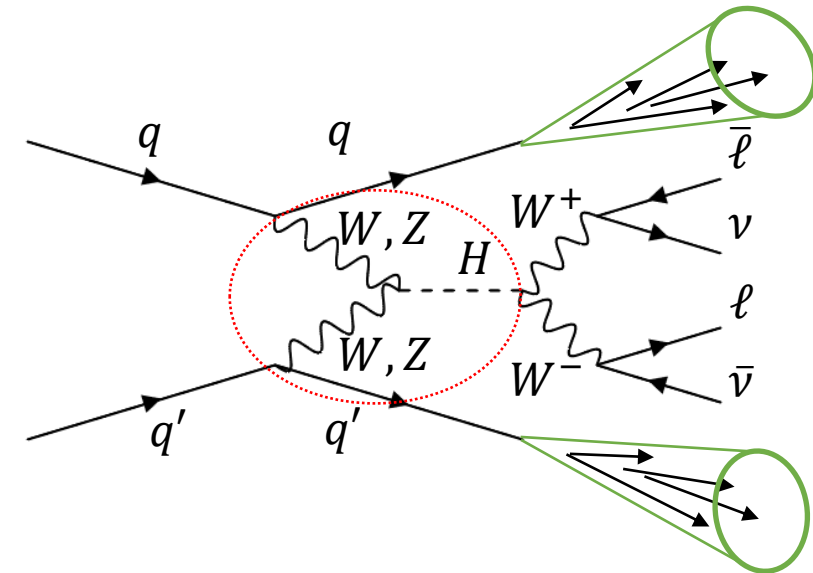


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About MCnet



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- From the beginning of October I will join the MCnet program in Durham, in this wonderful **building** (or at least this is what Google told me)

- My current work as a PhD student is to devise an analysis strategy to address the **Vector Boson Scattering** (VBS) in the W^+W^- fully leptonic final state

- **MCnet project:** Since the kinematic selection deeply relies on the 2-jet topology, it is crucial to have a sample as much precise as possible. Hence, I would like to:

- ❖ assess theoretical uncertainties on a possible 3rd jet-veto
- ❖ determine both NLO-QCD and –EWK corrections employing Sherpa
- ❖ eventually set limits on EFT parameters

