

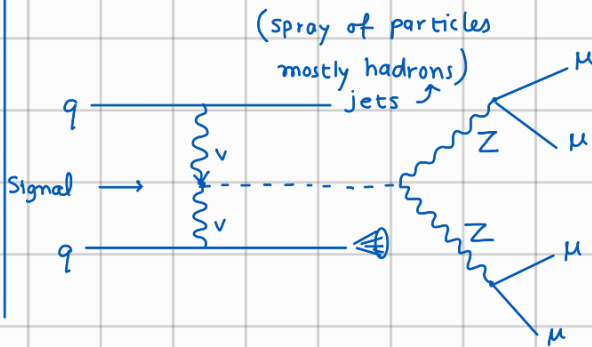
Machine Learning in Particle Physics

CMS

Higgs production @ LHC

signal file (Vector boson fusion (VBF))

2nd highest cross section

LHC energies: 8 TeV, 13 TeV, 13.6 TeV $v = Z/W^\pm$ 

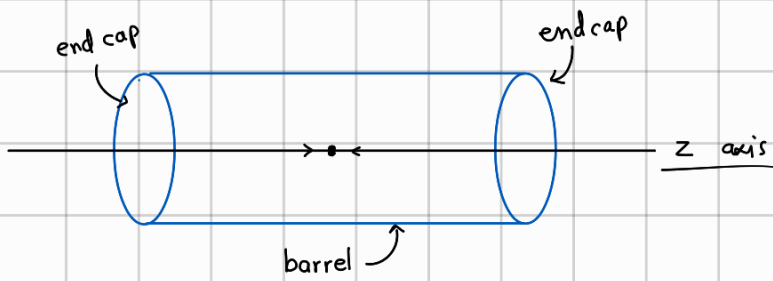
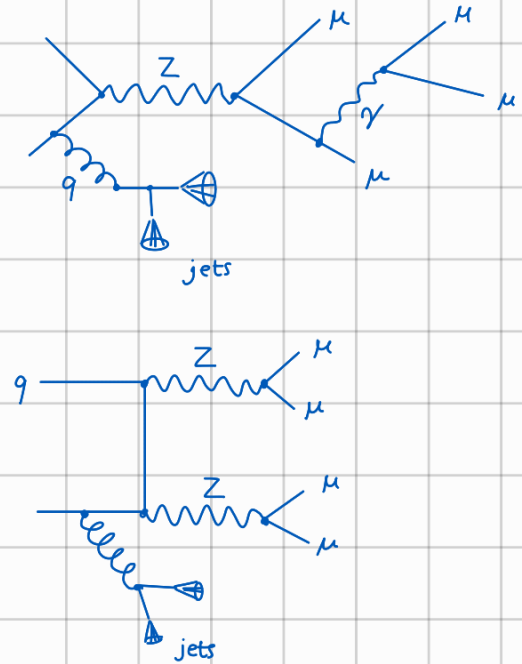
Reducible & Irreducible Backgrounds

Open the data file in ROOT software

Collider Signature

2 jets + 4 μ

Background

<https://playground.tensorflow.org>