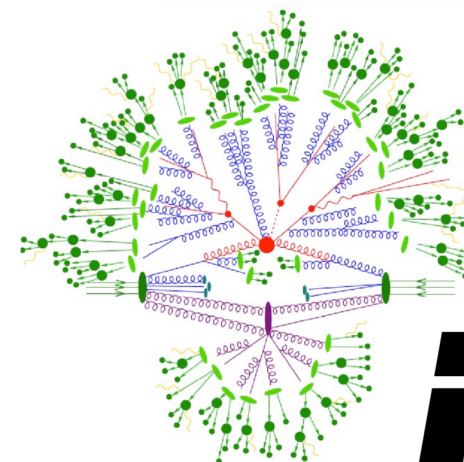
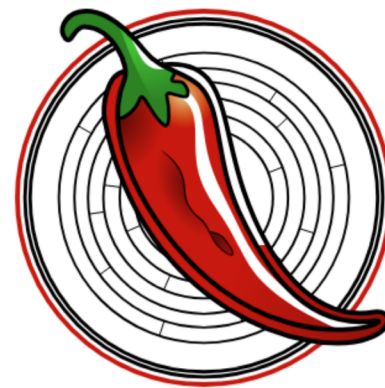
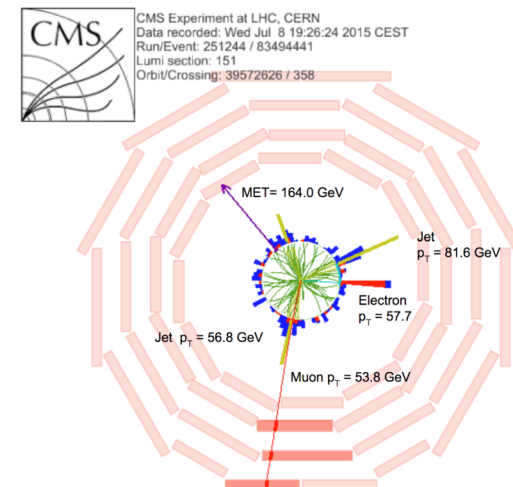
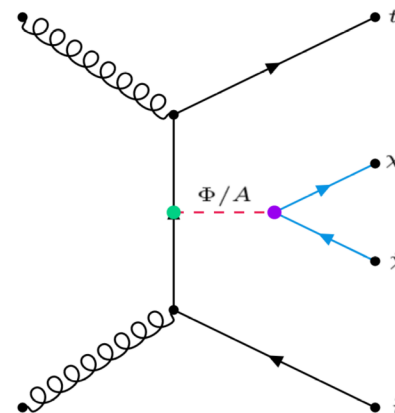
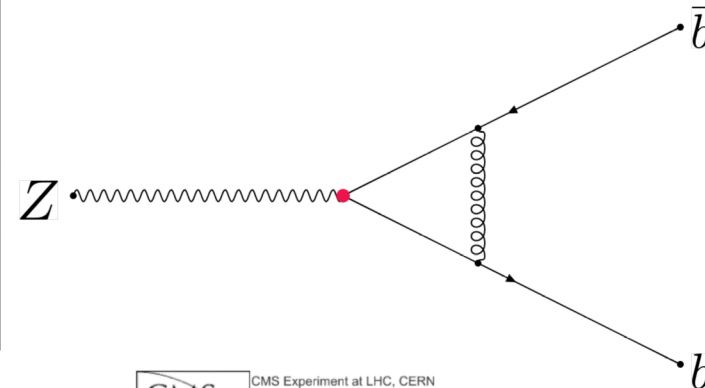


# About Me

## Background, past activities

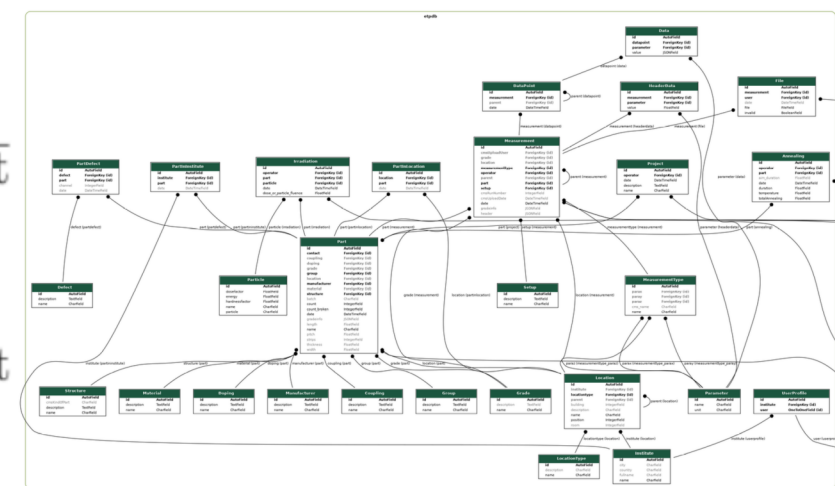
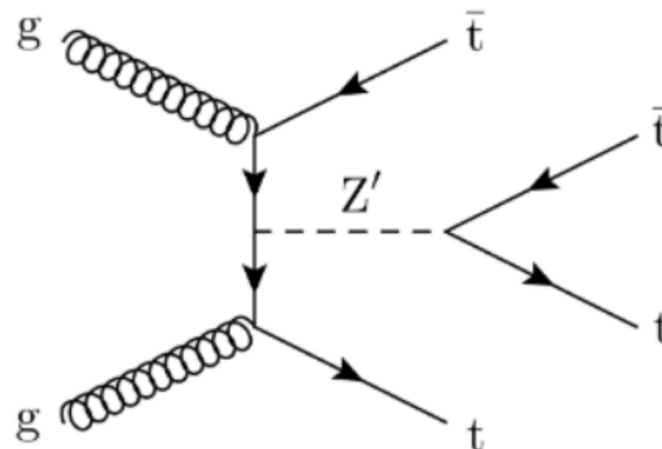
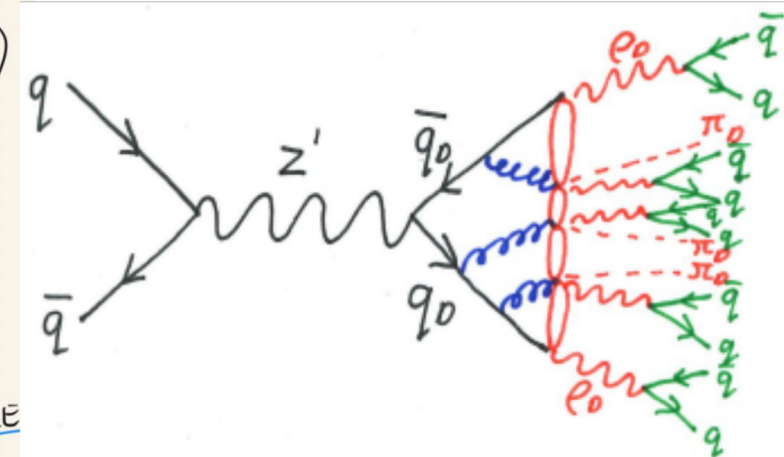
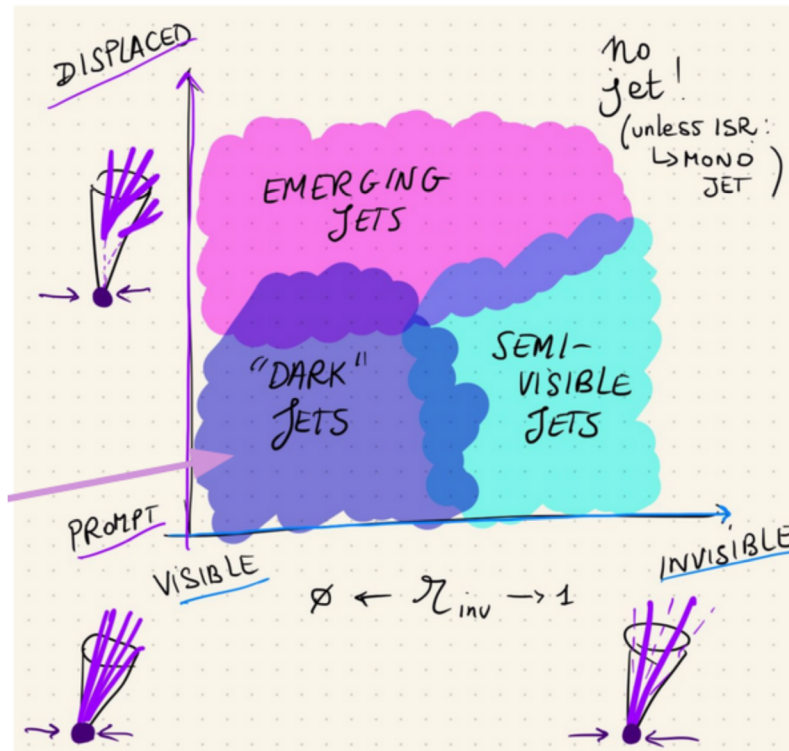
- From Nottingham, UK
- Integrated Masters at Durham University – thesis calculating NLO  $Z \rightarrow b\bar{b}$  decays in SMEFT
- PhD in CMS group at DESY searching for Dark Matter produced in association with top quarks
- Developed new code framework to analyse CMS NanoAOD format – “Pepper”, now used by ~ 15 analyses
- Also worked on maintaining Herwig Monte Carlo event generator in CMS



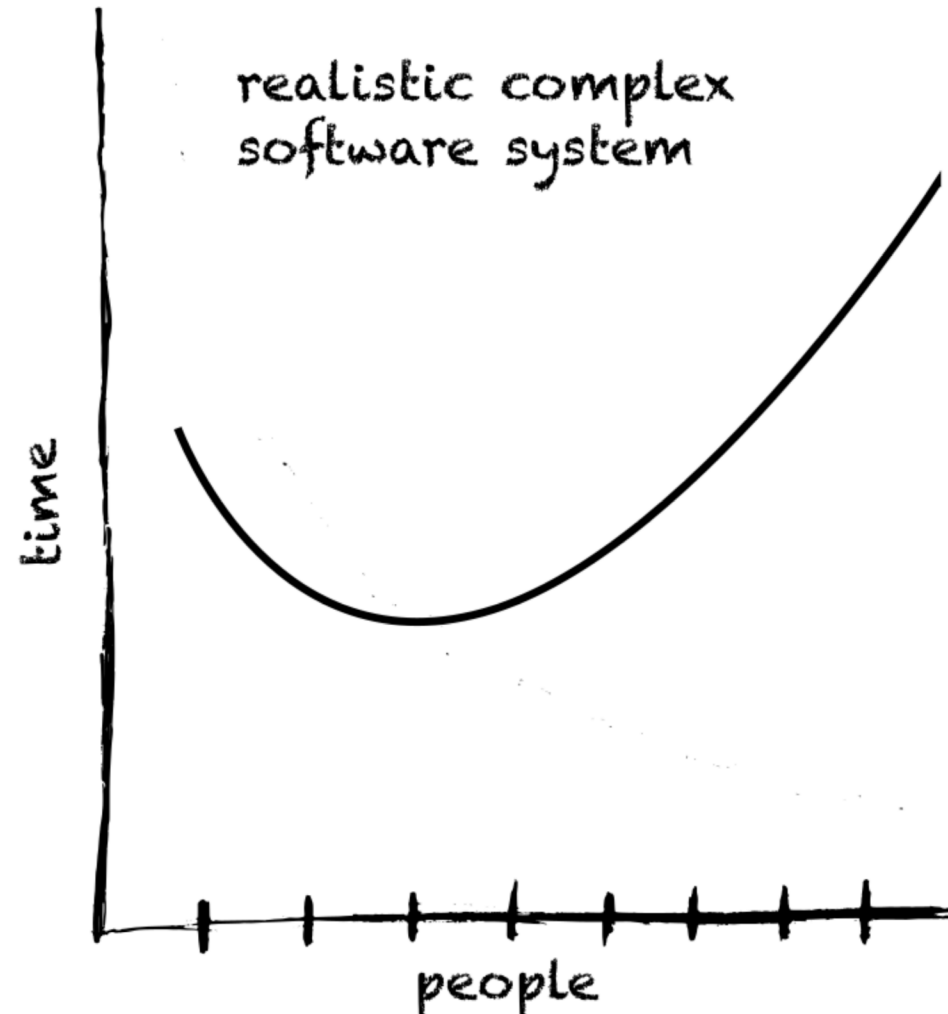
# My Current Work

## Activities and challenges

- Now searching for dark showers – more complex DM models with strong force in dark sector
- Currently implementing these in Herwig
- Planning a CMS search for these
- Helping with  $t\bar{t}Z'$  ( $Z' \rightarrow t\bar{t}$ ) search
- Starting to work on CMS tracker upgrade – currently working on database for components and measurements



# My Favourite Plot



Source:

