

About Me

Background, past activities

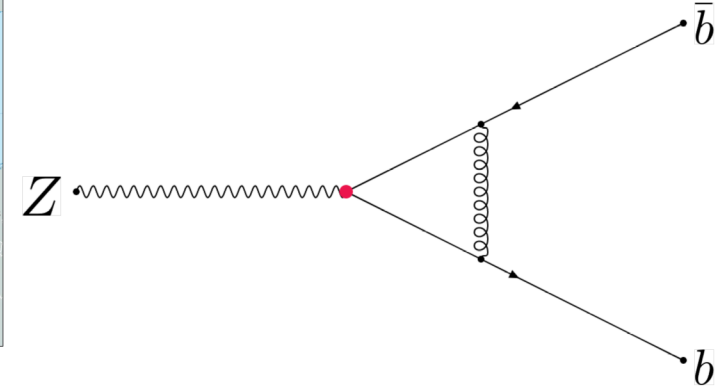
- From Nottingham, UK



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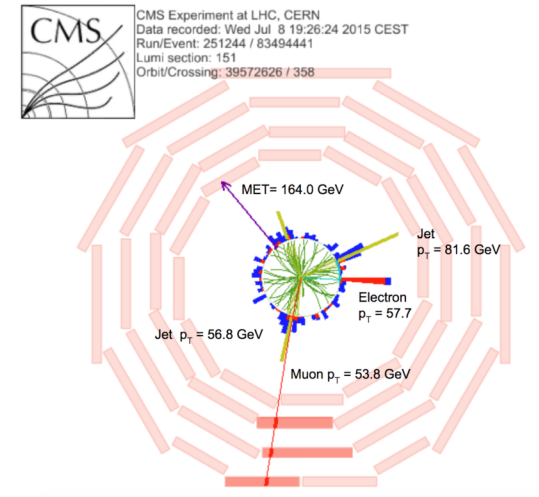
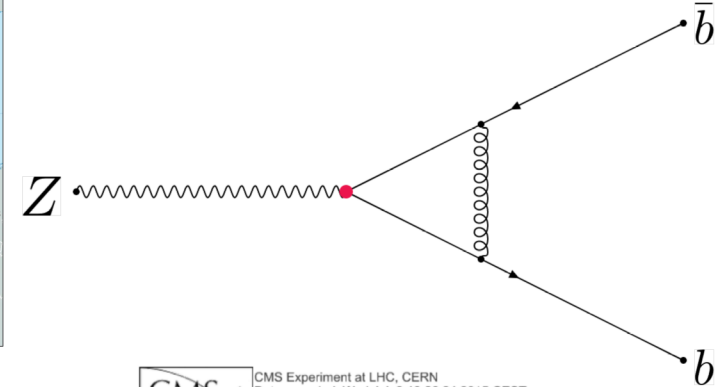
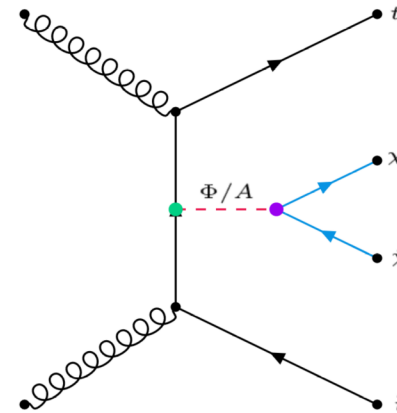
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– thesis calculating NLO $Z \rightarrow b\bar{b}$ decays in SMEFT



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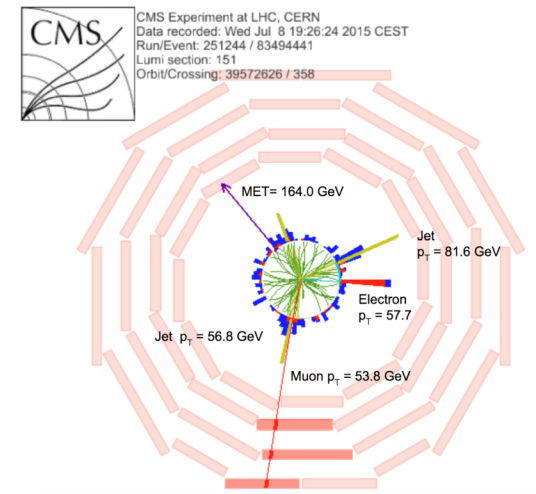
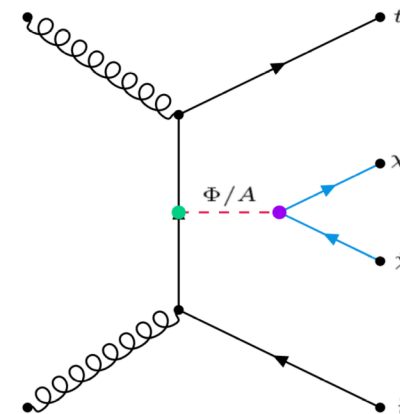
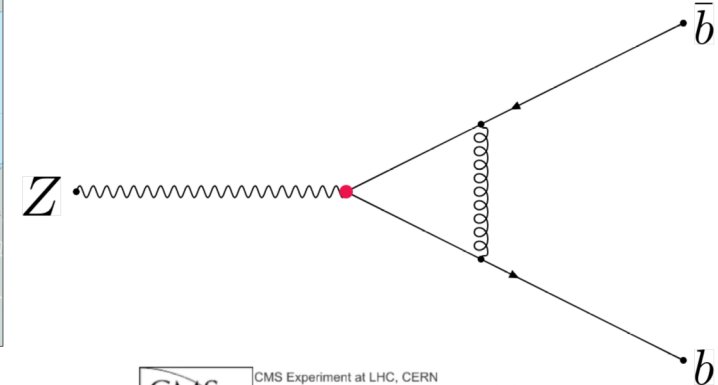
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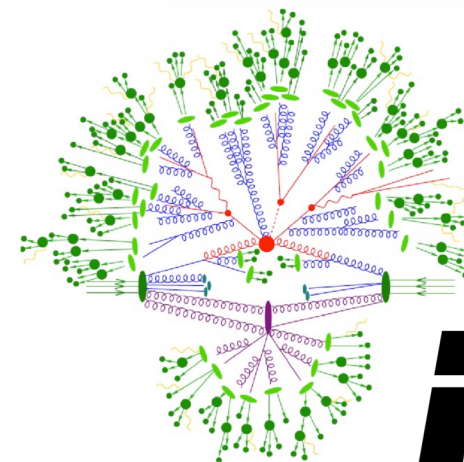
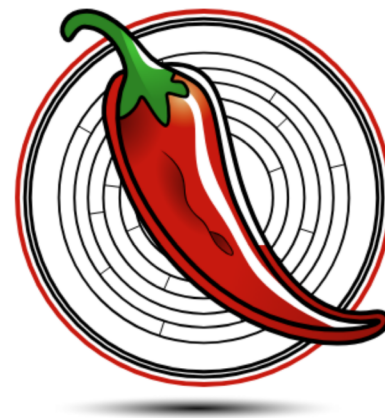
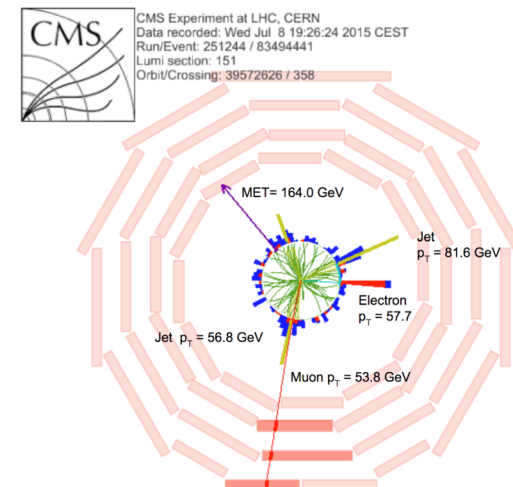
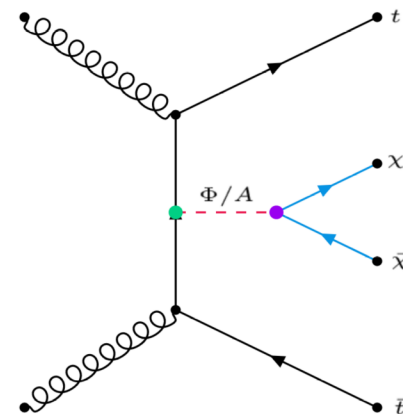
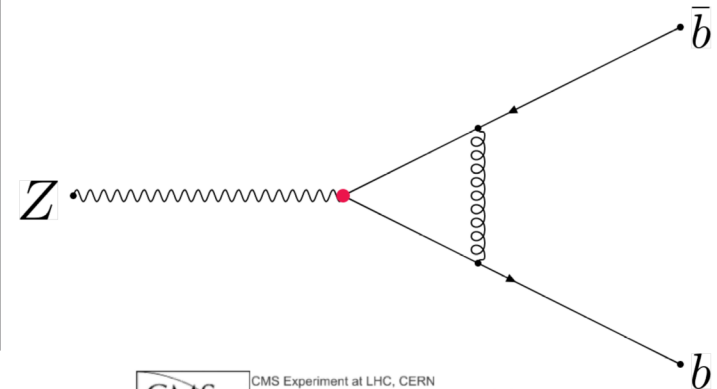
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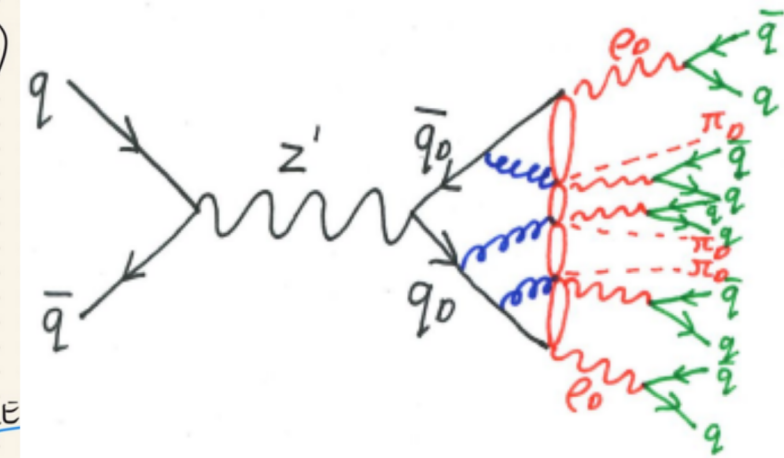
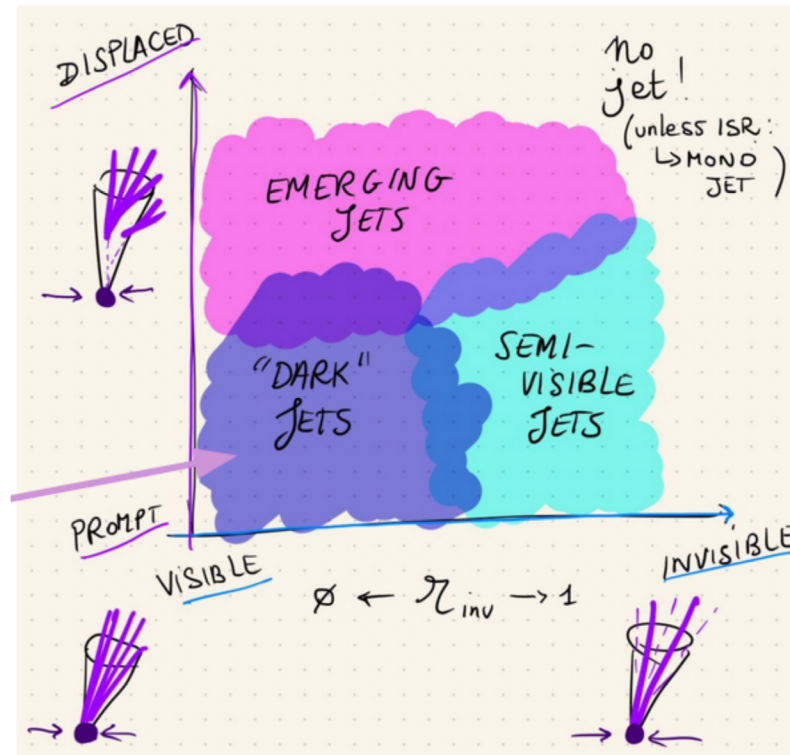
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- Developed new code framework to analyse CMS NanoAOD format – “Pepper”, now used by ~ 15 analyses
- Also worked on maintaining Herwig Monte Carlo event generator in CMS



My Current Work

Activities and challenges

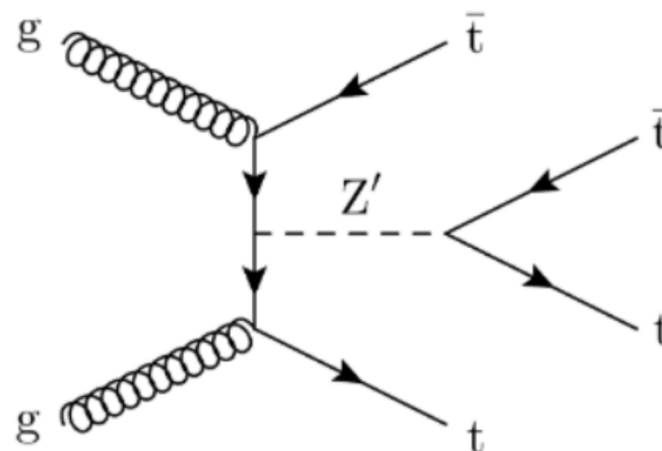
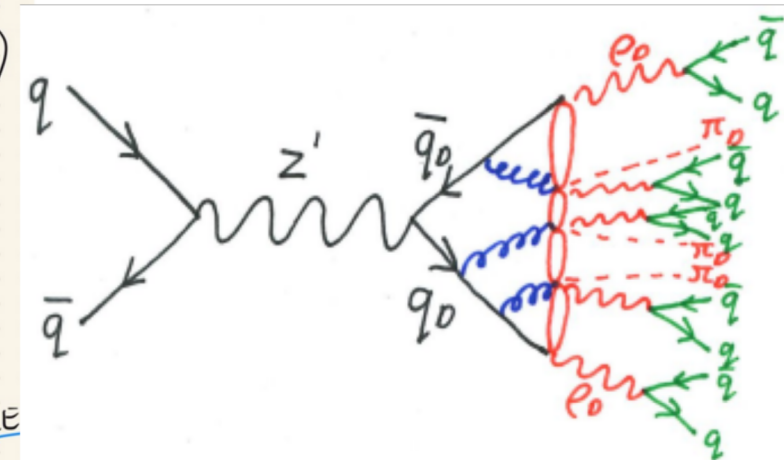
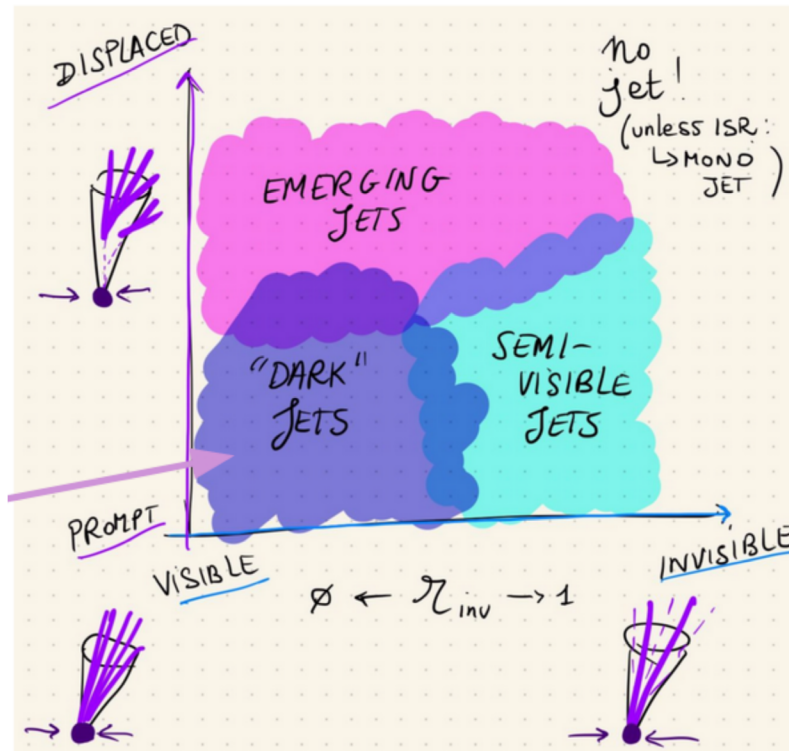
- Now searching for dark showers – more complex DM models with strong force in dark sector
- Currently implementing these in Herwig
- Planning a CMS search for these



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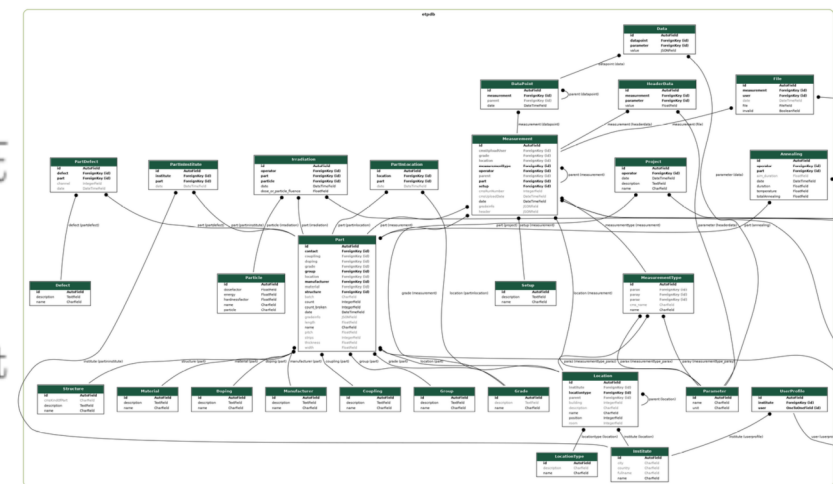
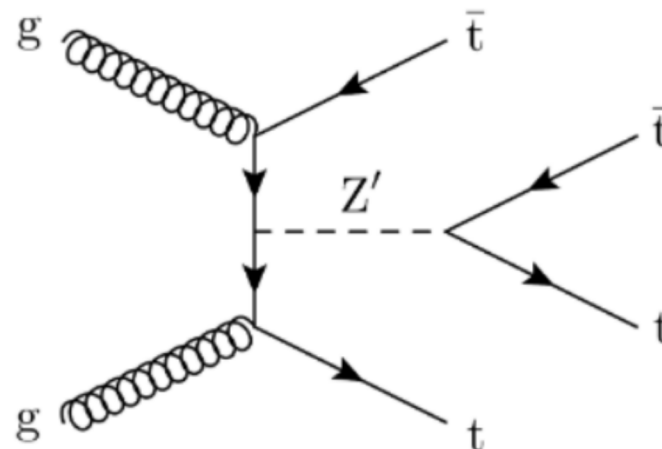
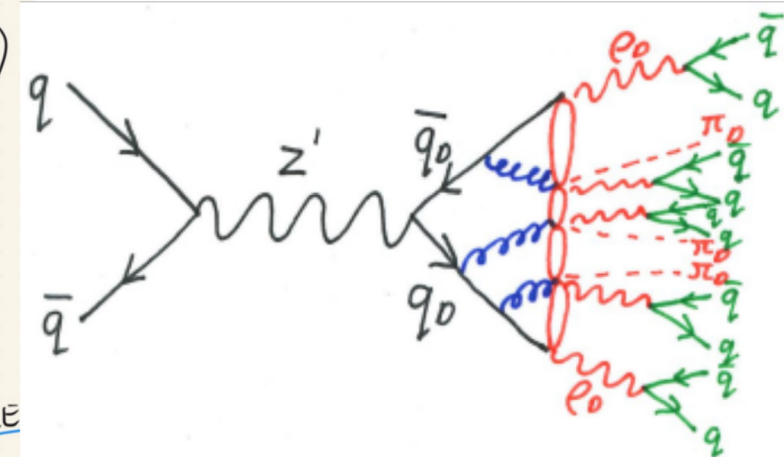
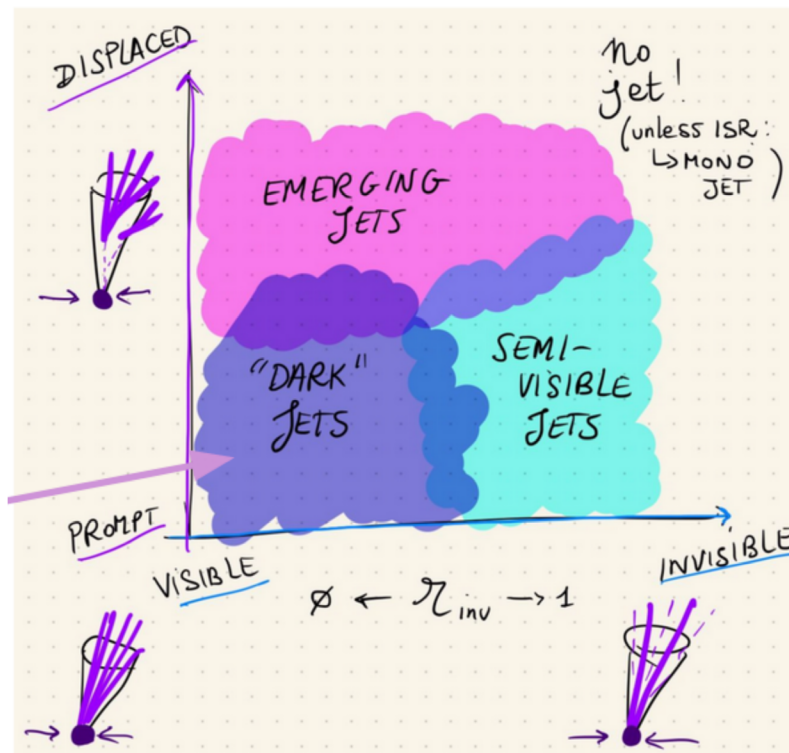
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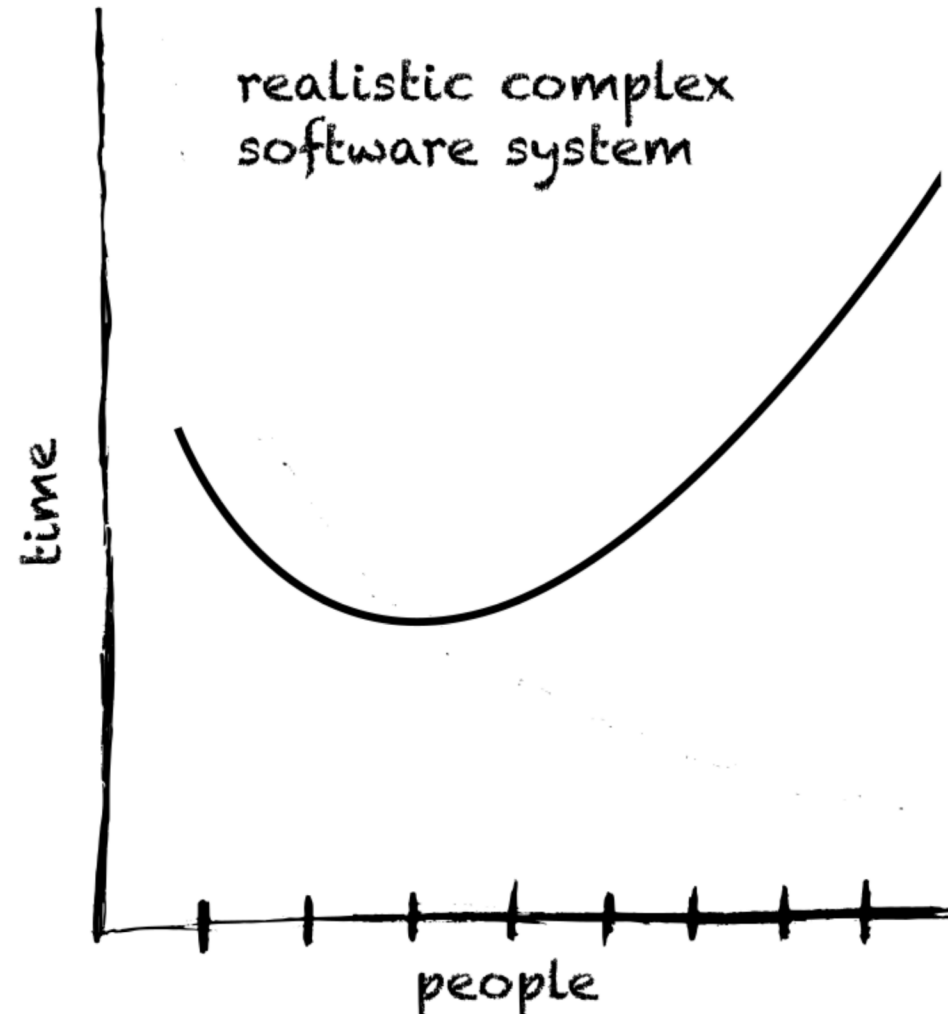
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Activities and challenges

- 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:

