Overview of graduation dates/timescales:

Albert needs to graduate in April, Guillaume in September.

Others 1.5 y or more

What paper do we want?

-all results/channels, plus one overall optimized result. Consensus: methods and results combined paper.

Divergence from SM paper is unavoidable, particular in the categorization method.

Consensus:

-we use deeptau, use refitted primary vertex (beamspot corrected?)

-Use DY data sample as control region

-probably use helical approach

Requirements per channel:

EVERYONE NEEDS TO PRIORITISE SYNCHRONISATION!

Impact parameter method

-Arun: impact parameters in pi+pi channel

-Alexander: check for bias due to beamspot

-Andrea: evaluate significance improvements

-evalueate for MC and embedded!

Other tasks:

-difference in muon/tau impact parameter resolution

-Danny will develop fake factors for mt channel

-Danny: contact h->WW people for advice on the MET calculations w.r.t. using puppimet

-need to understand very well what is in the embedded samples:

-Oliver will look into is

-e-tau: low priority

Polarimetric method:

-samples need to be reprocessed, play with combine

-Imperial will train a dedicated BDT

-control the DY region. PV validation likely not needed in addition

Decay plane method

-Aachen: ip parameter + decay plane

-IC: corrections mva ID. Proceed to Full Run 2 data set, obtain projected sensitivities. Review uncertainties, piˆ0 direction systematic

Other POG’s:

-few tau corrections needed

-lepton to tau fake rate..

Combination:

-IC will take lead, anyone welcome to join!

-rough, quick optimization

-include signal strength measurement?

Interpretation:

-Reflection on Run3 and phase 2 future

-deviations SM?

-advantages of the method vs ttH and production mode studies

-discuss interpretation with theorists

-ask for cadi line before Christmas

-PAS before Moriond 21st march

-Mohammad: include time schedule in workshop summary talk.

-What journal? JHEP, PLB, EPJ check with PC