

# Planning sample T

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# What we're doing...

- We are putting together a wish list for:
  - Signal MC samples to be generated when there are significant menu changes to test
  - List of triggers to generate these samples that would be useful (mainly for physics signal selection) at  $1 \times 10^{33} \text{cm}^{-2} \text{s}^{-1}$
- Boundary conditions would be:
  - Entire requests  $\leq 1\text{M}$  events and  $\leq 100$  different samples

# What we're NOT doing...

- Deciding ourselves here and now what, if anything, what will be produced, how, when etc
  - The lists we produce will be passed to trigger management who will decide
  - Maintaining this sample represents a gain but also a burden on trigger and on production resources
  - Benefits and costs must be well understood, this is only the beginning of the discussion
- Replacing the need for physics groups to set up the structures to study the effect of higher thresholds etc on D3PDs, AODs etc

# Ideally...

- Ideally we'll arrive at a sensible set of signal samples that would:
  - Make sure physics groups can give quick feedback to the menu coordination on new menus
  - ... after a previous discussion on what the menu should be
  - Guarantees that last checks can be done on realistic signal samples
- Should be another tool in the box, which improves the ATLAS capability to react quickly to changing luminosity etc and increase our physics output