

Signature IV: Some Questions for Discussion

- 1) What physics signature will help the detector scenario groups understand their momentum resolution goals for the central region? What about the forward ($|\cos(\theta)| > 0.8$) region?
- 2) What studies should the detector scenario groups be doing in the area of non-prompt tracks and new long-lived particles?
- 3) At what point do we run into experimental difficulties with very soft leptons. Do we cover the region that is interesting for physics models?
- 4) How well can we identify taus and constrain their momentum experimentally? If the physics asks for it, can we improve the detector performance for taus?
- 5) Would heavy quark flavor separation be improved enough by charged particle ID that it would be worth considering its inclusion [consult with vertexing group]?