BSM1 Discussion Questions

1) Is there a place that we are not covering well? Is it because of fashions, lack of triggers, or otherwise?
   - How to target the compressed region, or degeneracies (e.g. $m_{\text{stop}} \sim m_{\text{top}}$)
   - Inclusion of soft leptons from quasi-degenerate higgsino LSPs?

2) How confident are we in the modeling and performance of high $p_T$ / boosted objects at 14 TeV?
   - What if we see a resonance at mass not equal to $m_W$ or $m_{\text{top}}$ → are we confident that it is real?
   - Modeling of accidental substructure leading to broad differences in mass distribution?
   - Extrapolation to high $p_T$ and high PU?

3) What blinding strategy should we pursue in the future? Should ATLAS and CMS agree on a common policy?

4) At 14 TeV, the spotlight will be on high masses → how much emphasis should the experiments place on lower masses?
BSM2 Discussion Questions

1) The standard question: is there a place that we are not covering well? Is it because of fashions, lack of triggers, or otherwise?

2) If the galactic center signal is the DM annihilating, what is the best way of looking for it at colliders?
   – And what is the best way to put constraints on the mediator?

3) How applicable is EFT when extrapolating collider results to limits in the DM $\sigma$ vs. $M$ plane?
   – How should we treat this in the future (e.g., simplified models)?
   – Do different models require different search strategies/selections?

4) What range of neutralino DM masses is NOT excluded by our current results, and how do we target these holes?