Blue Sky Session (report)

❖ AKA:
❖ Go nuts
❖ Brainstorming-Over-Beers
❖ No Idea Too Crazy
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- AKA:
  - Go nuts
  - Brainstorming-Over-Beers
  - No Idea Too Crazy
  - Our guru supports them all!

[We] “support every and all such upgrades”
Brainstorming about how to exploit unused IPs (all of them occupied now) and/or existing detectors to turn them into the best detector for neutral LLPs
Lot of options for unused IPs

- Any PAPPS with a new detector requires to sacrifice 10-15% of the luminosity of other experiments
#2: New LLP trigger

- Crazy ideas are not inherent to the th/ph community!
- We also discussed the possibility to use an LLP trigger based on counting the number of hits not associated to standard tracks (HLT tracking) in some volume of the inner detector. [disclaimer: my own interpretation!] Targets “emerging jets”, but applicable to other signatures

Tracker

- Remove the blue one, is just BPP
- Count hits from magenta tracks (can be quite soft)
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- This is just a highlight of the most promising ideas discussed.

- Blue Sky Thinking is very important… what will go in White Paper V2?