

Tune Tracker/Chromaticity Tracker Plans

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What Happened at LARP Meeting

- Pete showed successful tune feedback up the ramp and squeeze in RHIC.
 - Coupling feedback is essential!
 - Only used for development ramps. Data fed forward for real HEP ramps.
 - There are still problems

Problems

- Note that RHIC feedback has been very successful but ...
- 3D-BBQ as detector still has too much phase noise.
 - Our solution on my last visit by lowering the bw of the TT closed loop bw helped when I was there but still did not fix everything.
 - 3D-BBQ suddenly loses signal.
 - 60Hz lines causes beam loss due to kicker kicking too hard.

What we decided

- Look at Pete's feedback loops and make sure that he hasn't done something wrong.
- Look at 3D-BBQ. Understand whether worse phase noise is inherent in this type of detector.
 - I have M.Sc. student looking at this.
- Continue work with McGinnis method for chromaticity tracking
 - Interest at both RHIC and at LHC.
 - Trip to CERN in September or October.