

Injector Status

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Time Meeting

FY16 Injector Job List

- Prepare Au+Au with higher bunch intensity, modify AGS cycle(a few percent gain), test 6->3->1 and 12->6->2(10-20% gain).
- Test Ruthenium setup in the Booster and AGS (beam out of tandem).
- Setup deuteron from tandem. It was used in run8 with $1.4E11$ /bunch at RHIC injection. We can add another bunch merge in the AGS to reach higher bunch intensity but with larger longitudinal emittance. Alternatively, if we can add some shielding in the TTB line, the single bunch intensity can be pushed further. This option is under evaluation.
- AGS pp setup behind RHIC stores. This is likely from end of February to the end of April behind Au-Au operation, as d-Au operation will occupy injector more.

Status

- Beam has been accelerated and bunch-merged in Booster.
- AGS check-off list is in MCR. It is expected to be ready by the end of today.
- The new thing this year is the AGS stopband correctors.
- In the AGS, we will reestablish 8->4->2 bunch merge first. Then we will try 2nd AGS bunch merge at a higher energy. Next, we will work on the new setup of 6->3->1. The expectation is that we can use longer Booster cycle to improve bunch merge. After that, we will try 12->6->2. This setting means different super cycle length. For this mode, EBIS source has to demonstrate 12 pulse capability first.
- We have about 2.5 weeks before RHIC beam request.

