

Notes from MI/RR Meeting - 08 Jan 2003

by Bruce Brown

Notes on 13 Jan 2003

Rumors and Reports

John Marriner reported that the Schottke system vacuum tests are proceeding. A yellow-ish oil was found in the vertical system (on the metal which holds the ferrite and inside the can). There was less oil observed on the horizontal system. The horizontal system has been baked and shows good vacuum. The vertical system is still pumping. An analysis of the oil has been requested.

Krish Gounder -- Studies with PBar Stores in RR

Slides from this presentation were prepared in a variety of ways so an electronic version will not be available immediately. Some of the issues covered included

- Instability -- beam loss which is consistent with being caused by a beam instability has been seen. For example, a sudden loss occurred during the TeV Shot Setup (150 GeV ramping) on 12/30/02. Some emittance changes were seen. Some events have included repeated losses in a number of steps. Speculation centered on longitudinal cooling system but no conclusions have been reached.
- John Marriner has added a primitive tune output from the VSA program. R:TUNEH and R:TUNEV are the new parameters. Need to check if they are being datalogged. [Datalogged on .gpj per S. Pruss, 13Jan03].
- In the last day we have had about 12 hours with no changes during which we observed a lifetime of 163 hours in the Recycler.
- Important question which we need to work on: Do we have real emittance growth when we compress from 400 or so buckets to 100 or so buckets for the PBars in the Recycler?
- (Marriner) We should be concerned that only 30% of beam from Accumulator is reaching the Recycler during recent studies.