

Alvin,

As promised I send you a couple of links to notes, articles and presentations on the topic of dynamic effects in Tevatron magnets. Note that we are still working on a publication on the vast a1 work we did this summer (re-shimming demonstration, etc..) which is 95% done as well as other write-ups on drifting B0, a1, b1, ..etc.. Also the write-ups you find below are in some instances not including the latest data. The latest cost-estimate of the off-line system will come with a separate mail.

These are notes on b2 and the complete ref magnet cost estimate

[<http://tdserver1.fnal.gov/bauer/Tevatron/TD\\_02\\_040\\_Tev\\_Mag\\_models.pdf>](http://tdserver1.fnal.gov/bauer/Tevatron/TD_02_040_Tev_Mag_models.pdf)

[<http://tdserver1.fnal.gov/bauer/Tevatron/TD\\_02\\_042\\_Tev\\_RefMAGLabCostEst.pdf>](http://tdserver1.fnal.gov/bauer/Tevatron/TD_02_042_Tev_RefMAGLabCostEst.pdf)

[<http://tdserver1.fnal.gov/bauer/Tevatron/TD\\_03\\_008\\_Tevb2compensation.pdf>](http://tdserver1.fnal.gov/bauer/Tevatron/TD_03_008_Tevb2compensation.pdf)

These are PAC 03 articles on b2 and tune drift:

[<http://tdserver1.fnal.gov/bauer/Tevatron/PBauer\\_PAC03\\_Tevb2issues\\_TPPB055.pdf>](http://tdserver1.fnal.gov/bauer/Tevatron/PBauer_PAC03_Tevb2issues_TPPB055.pdf)

[<http://tdserver1.fnal.gov/bauer/Tevatron/GVelev\\_PAC03\\_TevMagMeas\\_WPAE016.pdf>](http://tdserver1.fnal.gov/bauer/Tevatron/GVelev_PAC03_TevMagMeas_WPAE016.pdf)

[<http://tdserver1.fnal.gov/bauer/Tevatron/MMartens\\_Tunedrift\\_PAC03\\_FPA B031.pdf>](http://tdserver1.fnal.gov/bauer/Tevatron/MMartens_Tunedrift_PAC03_FPA B031.pdf)

These are presentations on the subject, 3 by me, one by Joe DiMarco on the B0 drift.

[<http://tdserver1.fnal.gov/bauer/Tevatron/PB\\_LHCseminar\\_TevMagIssues\\_0603.pdf>](http://tdserver1.fnal.gov/bauer/Tevatron/PB_LHCseminar_TevMagIssues_0603.pdf)

[<http://tdserver1.fnal.gov/bauer/Tevatron/JDM\\_B0\\_drift\\_tevMeeting\\_11Jul03\\_Pres.pdf>](http://tdserver1.fnal.gov/bauer/Tevatron/JDM_B0_drift_tevMeeting_11Jul03_Pres.pdf)

[<http://tdserver1.fnal.gov/bauer/Tevatron/TevDOEReview0703\\_Breakoutsession\\_PBauer.pdf>](http://tdserver1.fnal.gov/bauer/Tevatron/TevDOEReview0703_Breakoutsession_PBauer.pdf)

[<http://tdserver1.fnal.gov/bauer/Tevatron/PBauer\\_TevMagStudies\\_SMPACJune03.pdf>](http://tdserver1.fnal.gov/bauer/Tevatron/PBauer_TevMagStudies_SMPACJune03.pdf)

Don't hesitate to contact me if you cannot open any of these files  
(some  
of the presentation files are large).

Regards

Pierre