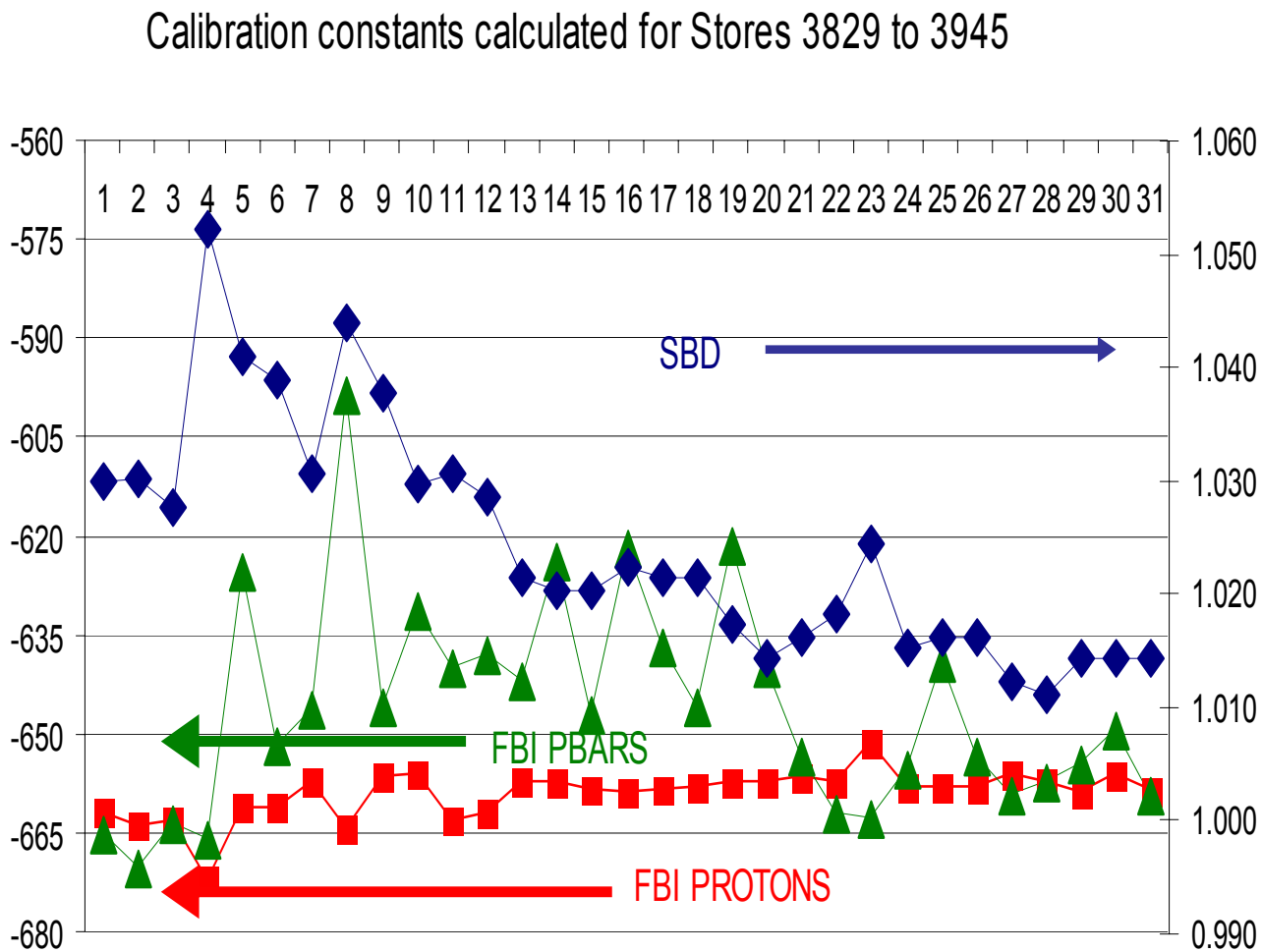
TeV SBD and FBI calibration general scheme reminder..

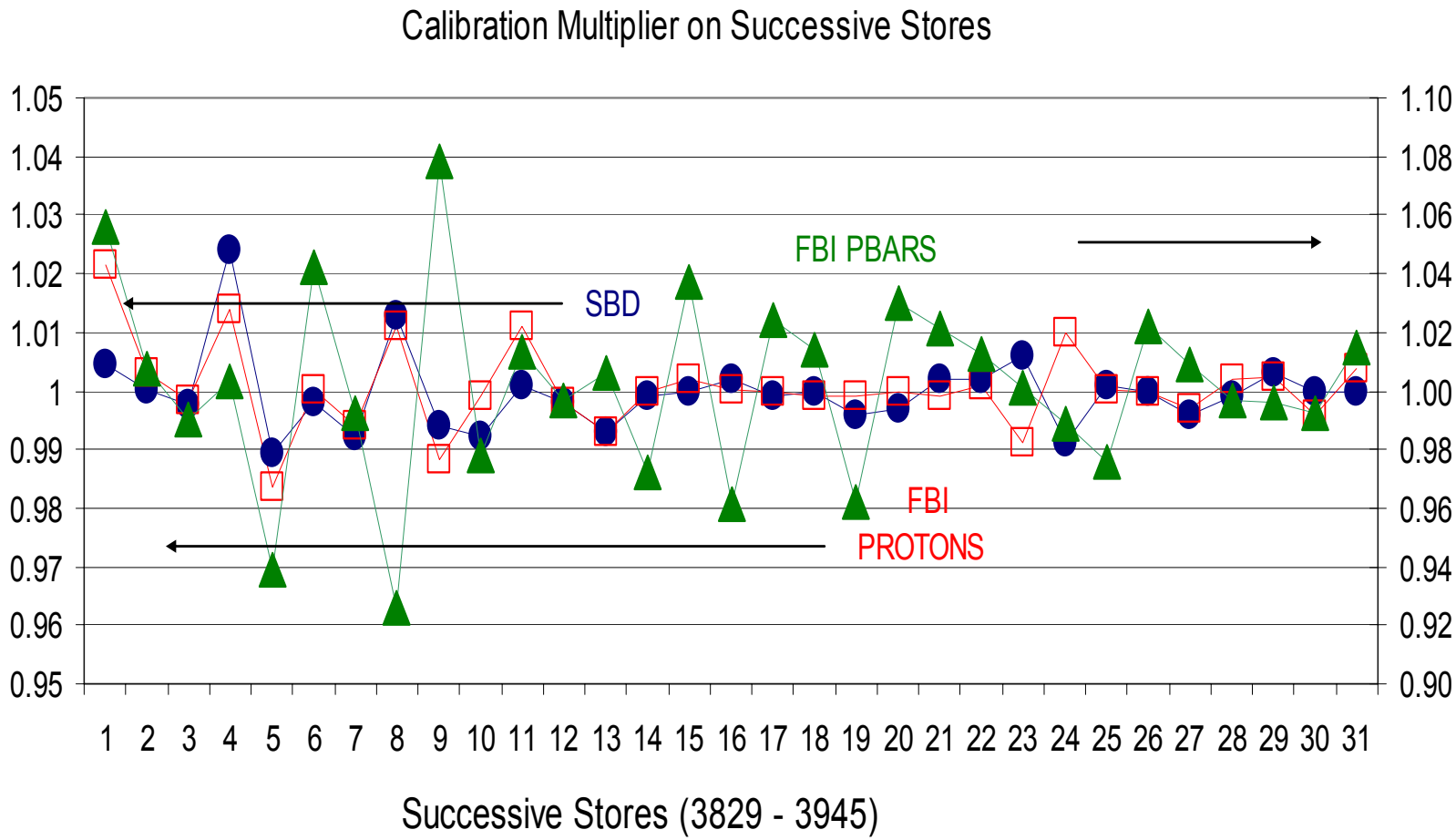
Take SBD total wide gate just after cogging at Flat-top; normalize to T:BEAM over about 20 readings:

Normalize FBI protons and FBI pbars to SBD protons and pbars (narrow gates)

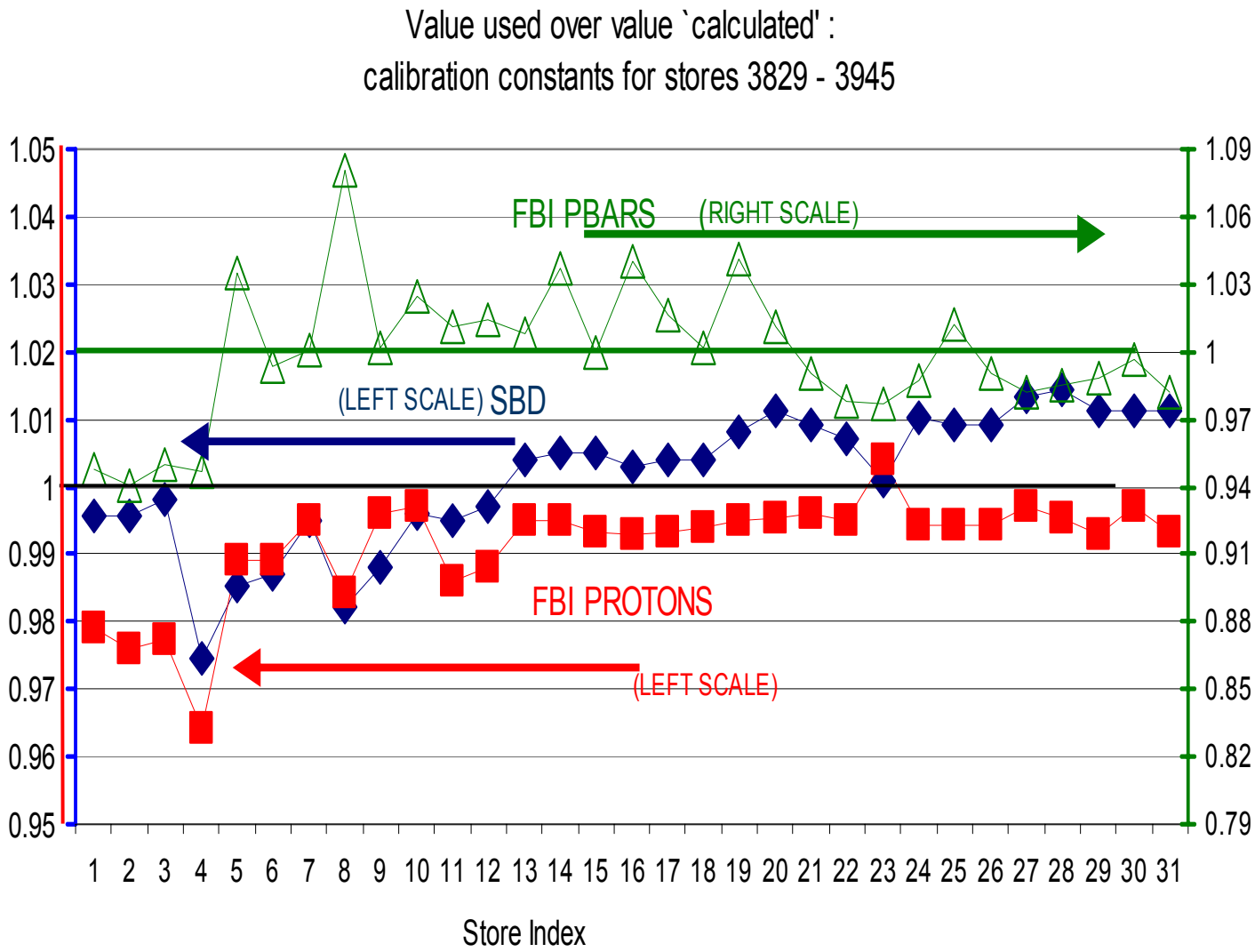


SBD calibration calculation suggests that calibration should be reduced by ~ 1% (ie the SBD gain has increased about 1%)

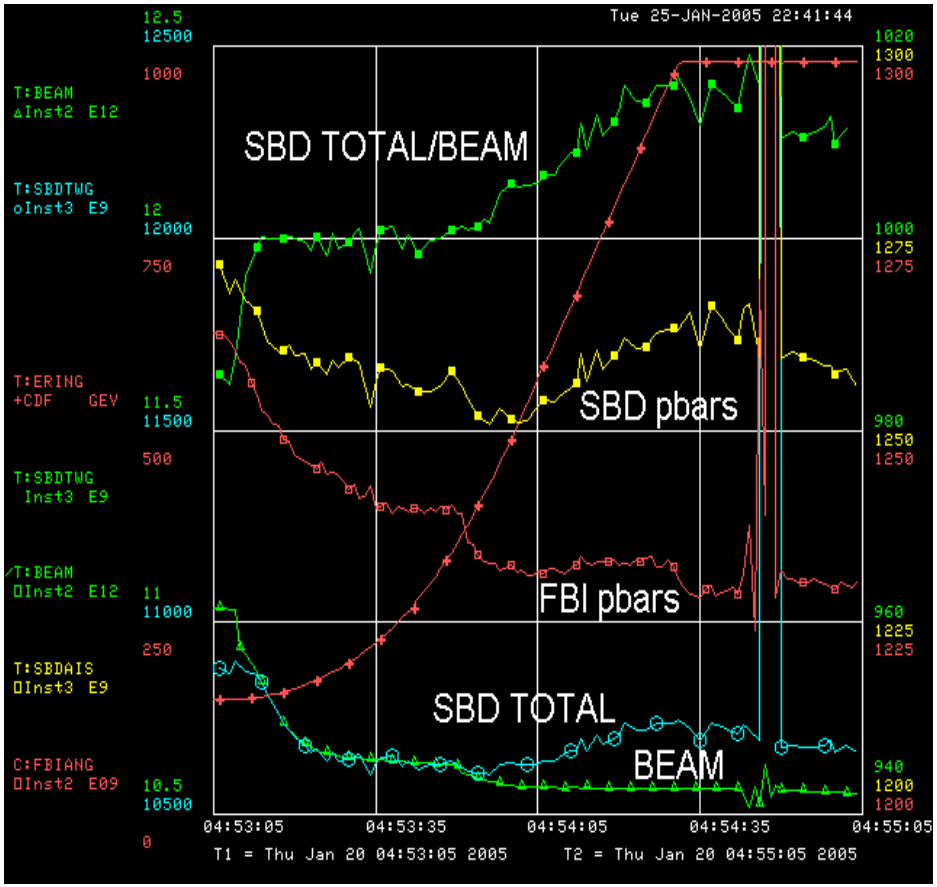
FBI proton calibration calculation implies that the calibration should be increased by ~1/2%

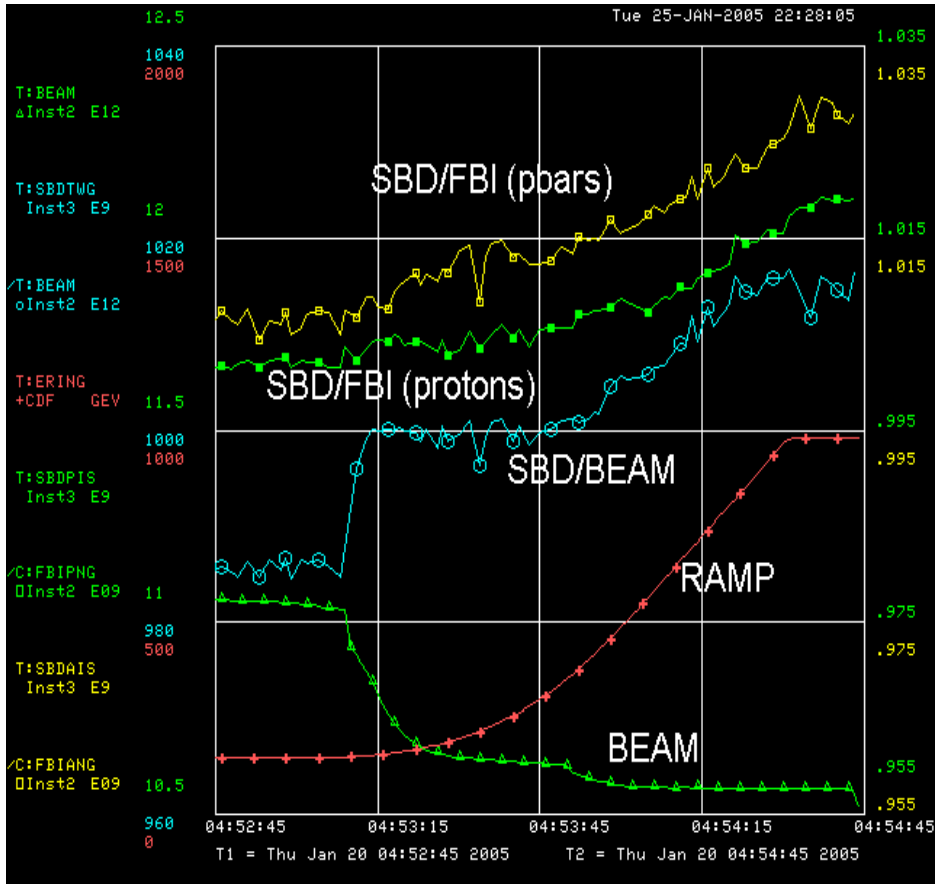


This shows the change we would have made store by store to follow the calculated calibration (the total change is the product of all the changes) This needs to be monotonic for this process to be useful.



This shows the error we are making. If the used/calculated value is <1, we are underestimating the flux, if it is >1, we are overestimating.





Yes..there is a problem with the SBD on the ramp

FBI proton/antiproton calibration vs proton/antiproton flux