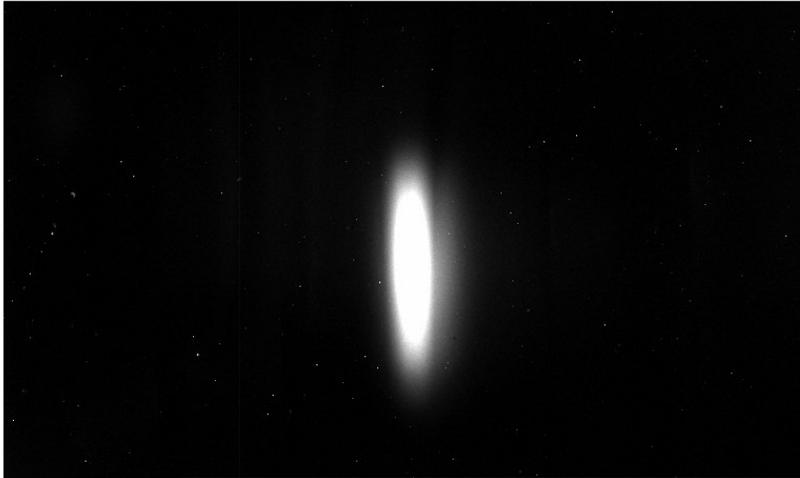


Beam Losses Cause Streaks in H-Jet Camera Images

D. Gassner, S. Bravar, 3-3-06

Sometimes there are white streaks at about 45degrees in an image, sometimes not, see the two images below. (Parameters DS9 Scale 98%, optics at -21,500, 53 bunches in Yellow, 2.6e12 protons, 100GeV, -15C, 1 min integration). Image scale 25.5 X 17mm.

No streaks:

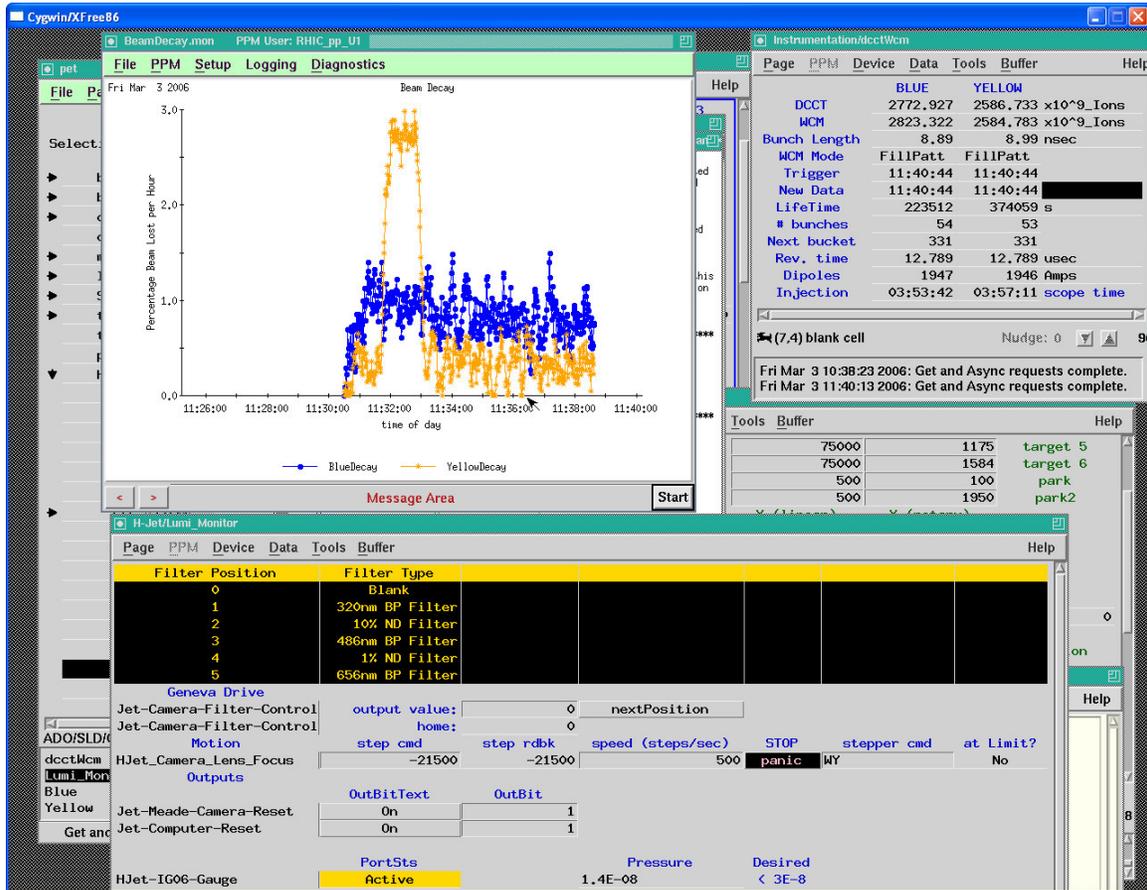


Streaks at 45 degrees:



With the help of Sandro we were able to correlate these streaks to the time the Yellow CNI polarimeter target was inserted. The H-Jet is downstream of the Yellow CNI polarimeter by about 100 meters. The Meade camera head is mounted about 2 meters above the beam axis & oriented at 45 degrees.

See below screen dump showing elevated yellow beam loss measurements during the time the Yellow CNI target was in. The image above with the streaks was taken during this time (11:32:00). The image above without the streaks was taken shortly after when the target was parked.



Of course other things can cause beam losses upstream that could produce similar results, these include collimators, and poor beam steering.