G⁰ PC Installation and Beam Studies

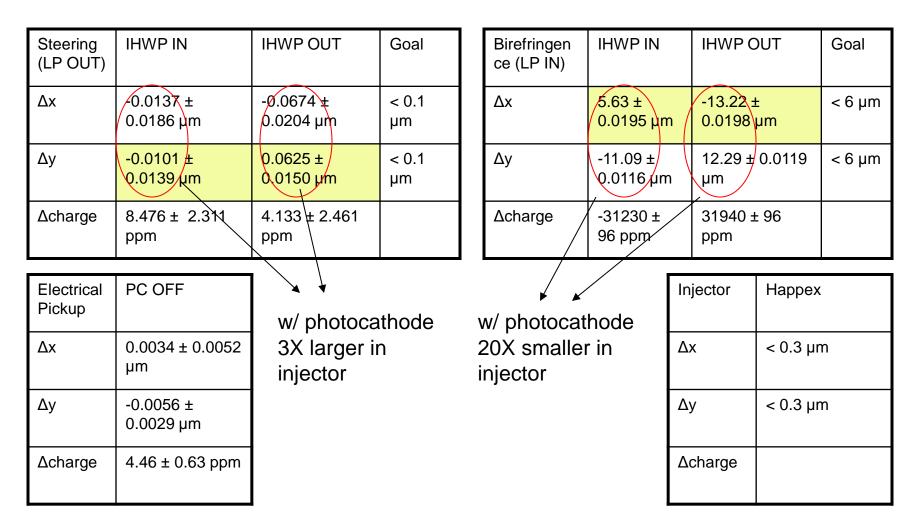
January 2007

Stephanie Bailey Riad Suleiman

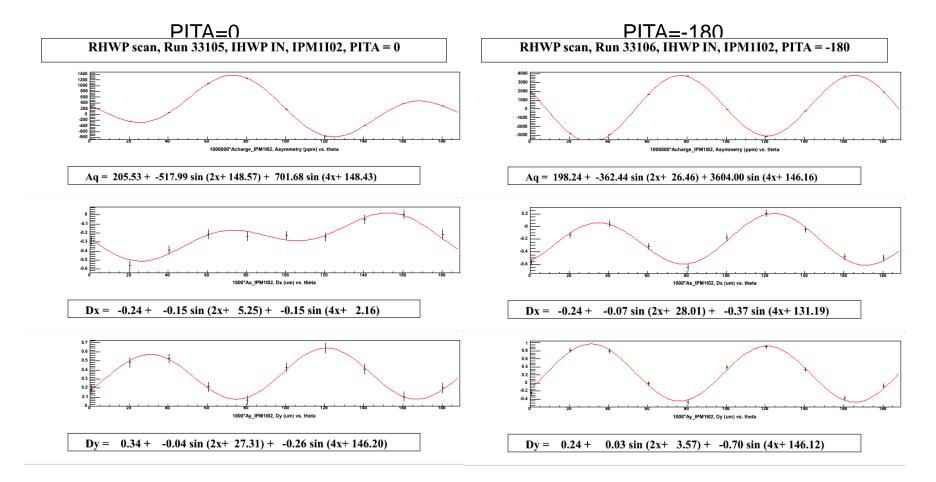
Pockels Cell Installation January 2, 2007

- What did we accomplish?
 - Commission the PC translational Stage. These are the x & y of the PC that minimize the position differences for each IHWP state: IN: x=0, y=90 mils OUT: x=70, y=90 mils
 - Aligned Pockels Cell (PC)
 - Degree of linear polarization = 3.24%
 - Degree of circular polarization = 99.95%
 - Minimized x and y position differences.

Pockels Cell Installation January 2, 2007



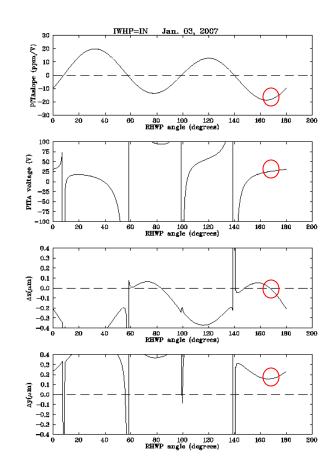
Electron Beam Studies January 3, 2007

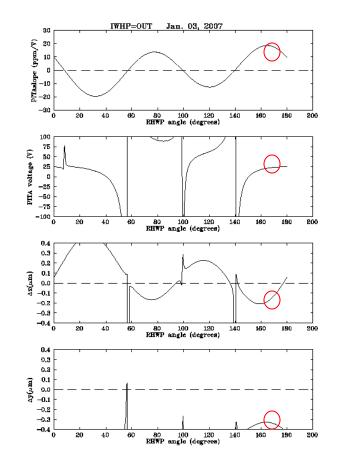


Electron Beam Studies January 3, 2007

RHWP=170°

RHWP=170°





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IHWP = IN RHWP = 170° -17 ppm/V

