

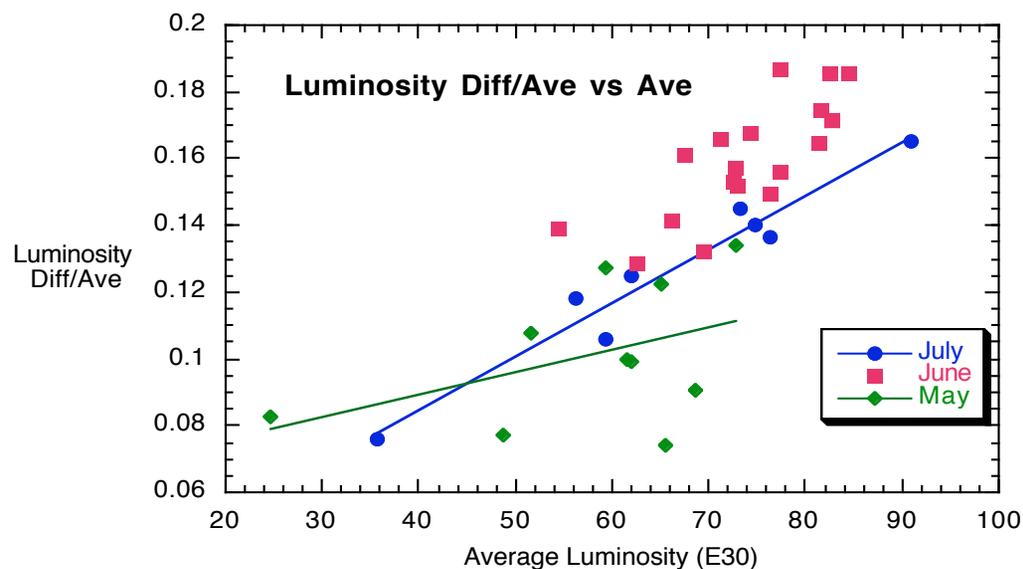
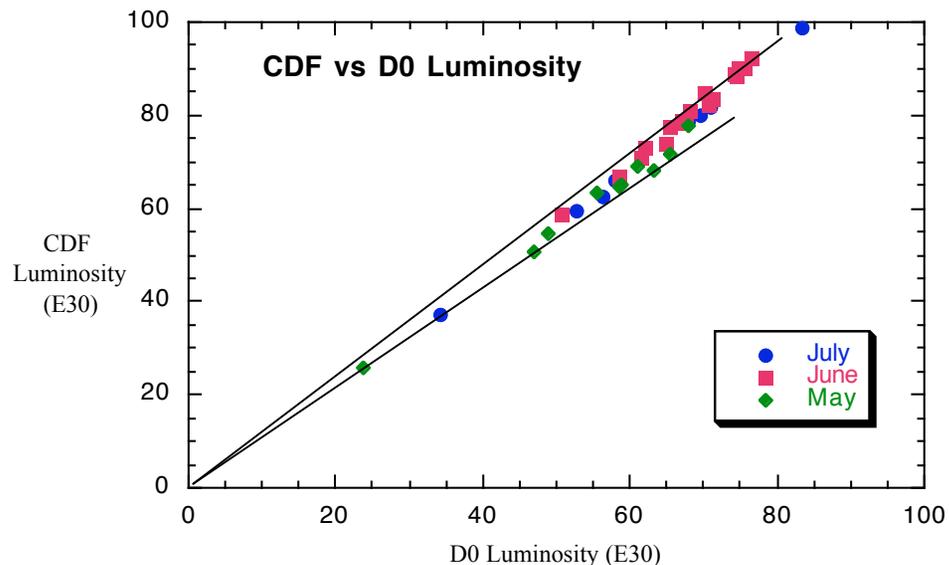
Comparing AD and IP luminosity measures

Using AD super-table data from May 17 to July 9
(removed store 3528, CDF hardware problem)

Carl Bromberg, for CDF Collaboration

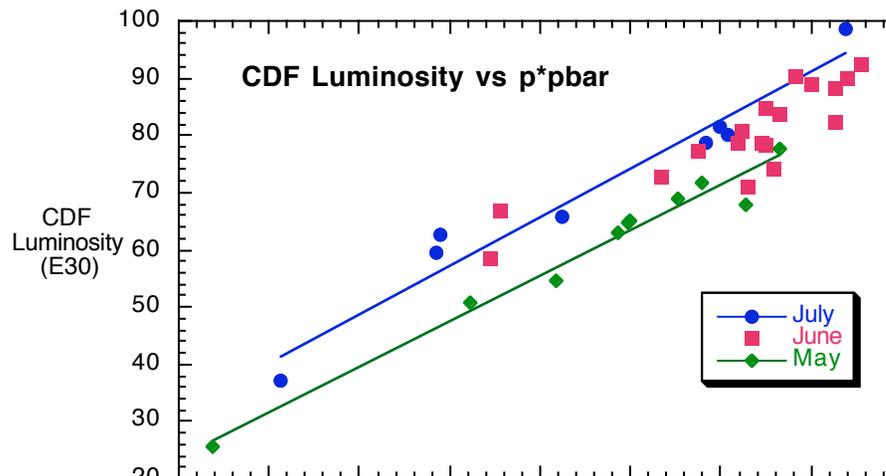
Initial Luminosity at each IP

- At the two IP's, coarse agreement of initial luminosity measurement
- Fractional difference in initial luminosity is not a constant (slope changes)
- Implies a non-linearity in measurements at one or both IP's.
- Difference bigger in June than in July (?)

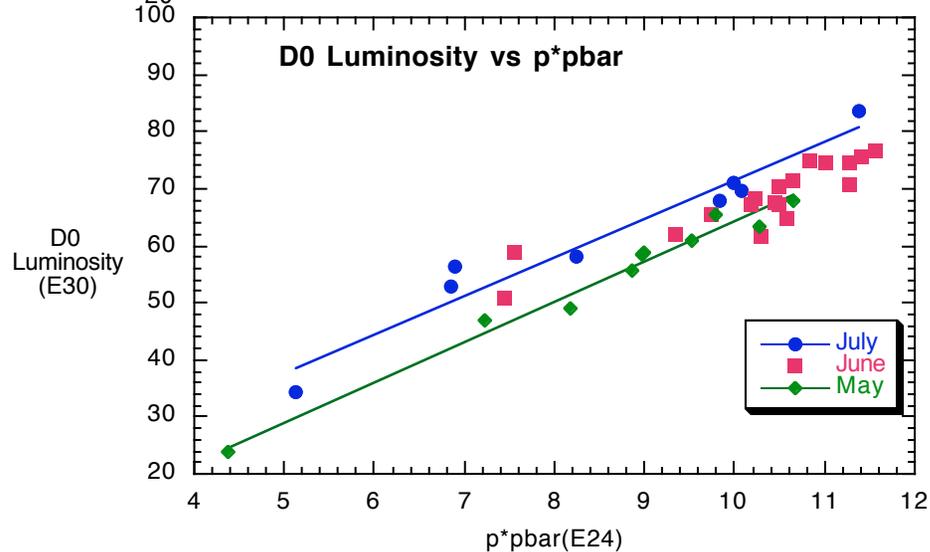
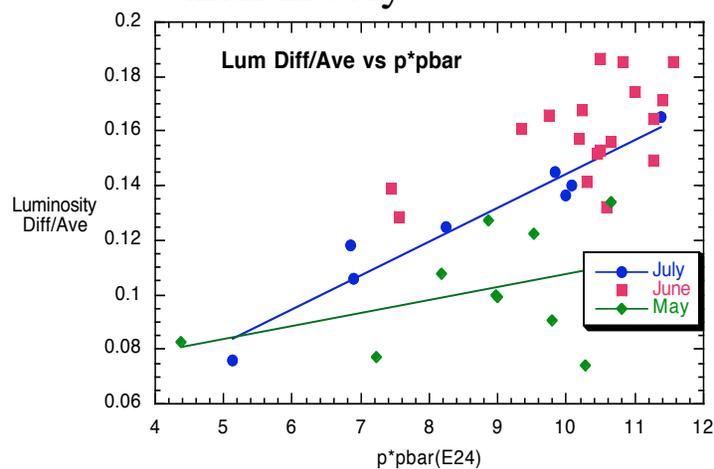


Luminosity vs. p^*pbar

- Luminosity yield per p^*pbar has increased at both IP's over the last few months



- Difference bigger in June than in July?



Experiment IP vs AD Luminosities

- AD calculation from Super-table (p , $pbar$, ϵ 's)
- Slope compares AD estimate of β^* with that observed at each IP
- Different slopes would indicate different β^* s at each IP
- Non-linearity induced (or hidden) by one or more of the following:
 - a) AD problems (ϵ , ...)
 - b) β^* luminosity dependent
 - c) flawed measurement by experiment(s)
- Are ϵ 's available during the store via Sync-light?

