CDF/D0/AD Luminosity meeting

August 31 2004

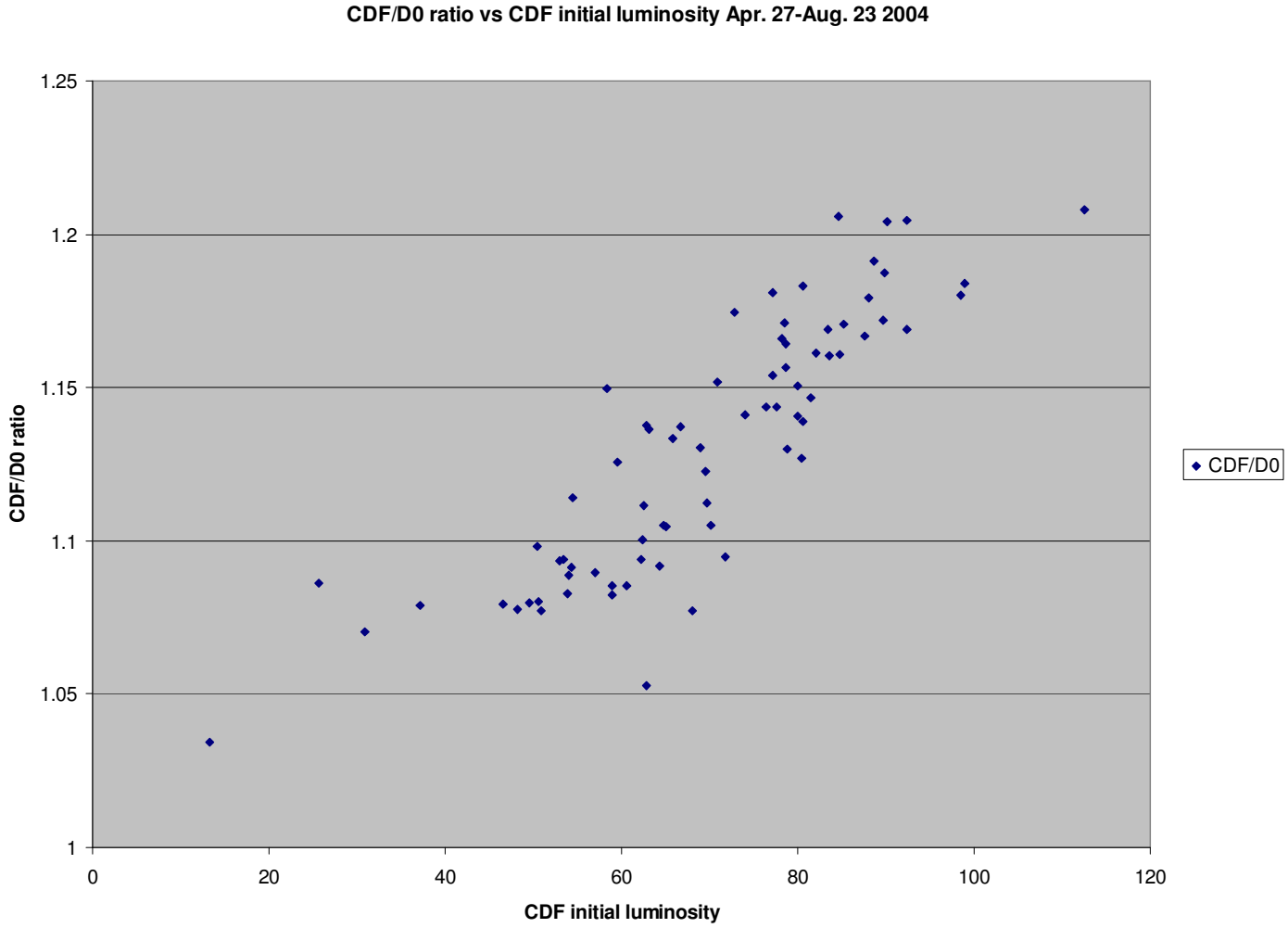
Vaia Papadimitriou

New low beta optics

- New low beta optics were introduced in store 3487, May 12 2004
- Optics corrections were completed by introducing alpha bumps in store 3534, May 26 2004
- As a result luminosities increased at both IPs

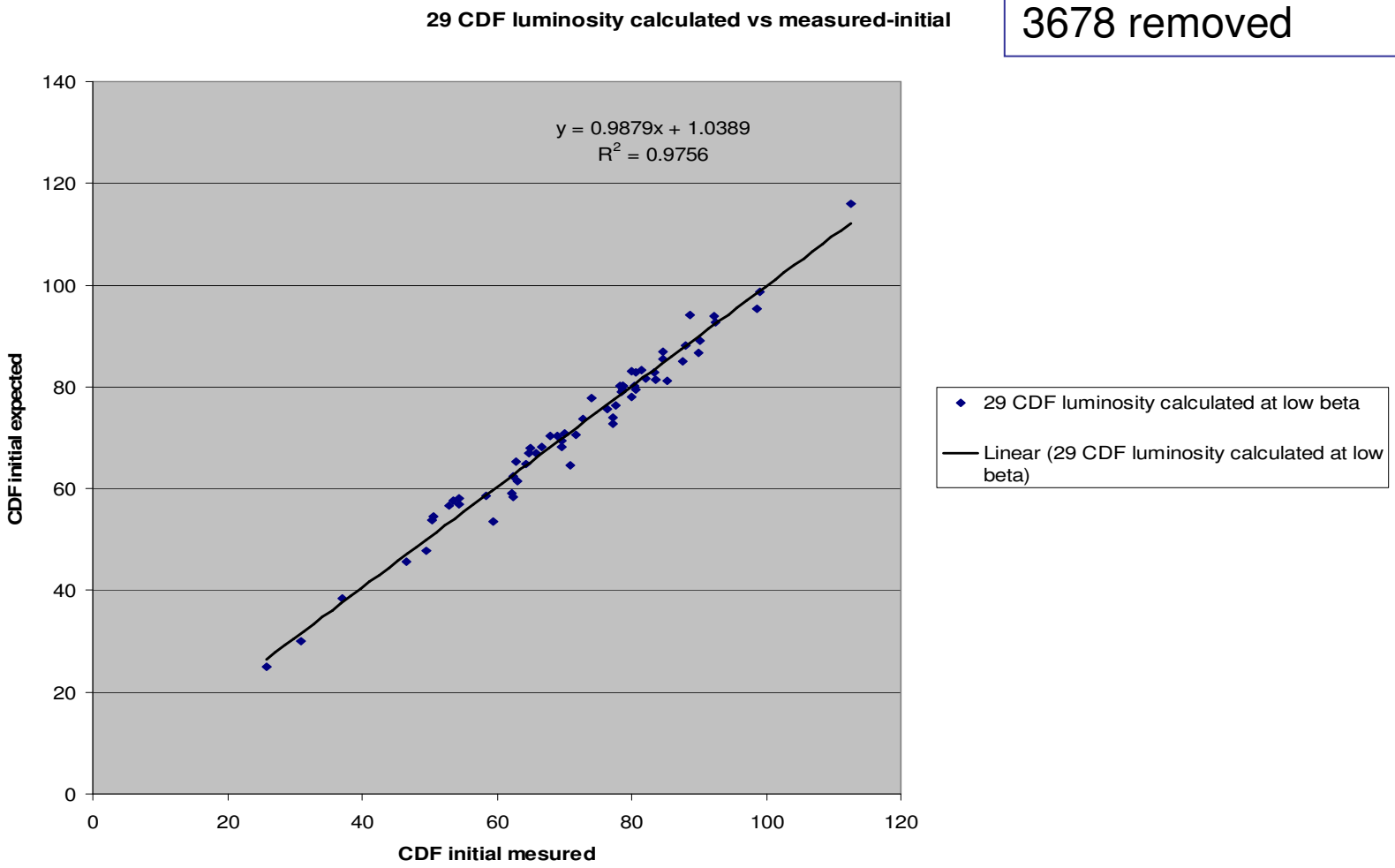
CDF/D0 ratio vs luminosity

The ratio appears to depend on (and increase) with the luminosity



CDF calculated vs initial luminosity after the beam optics change and till August 23

Stores 3528,3663, 3671, 3678 removed



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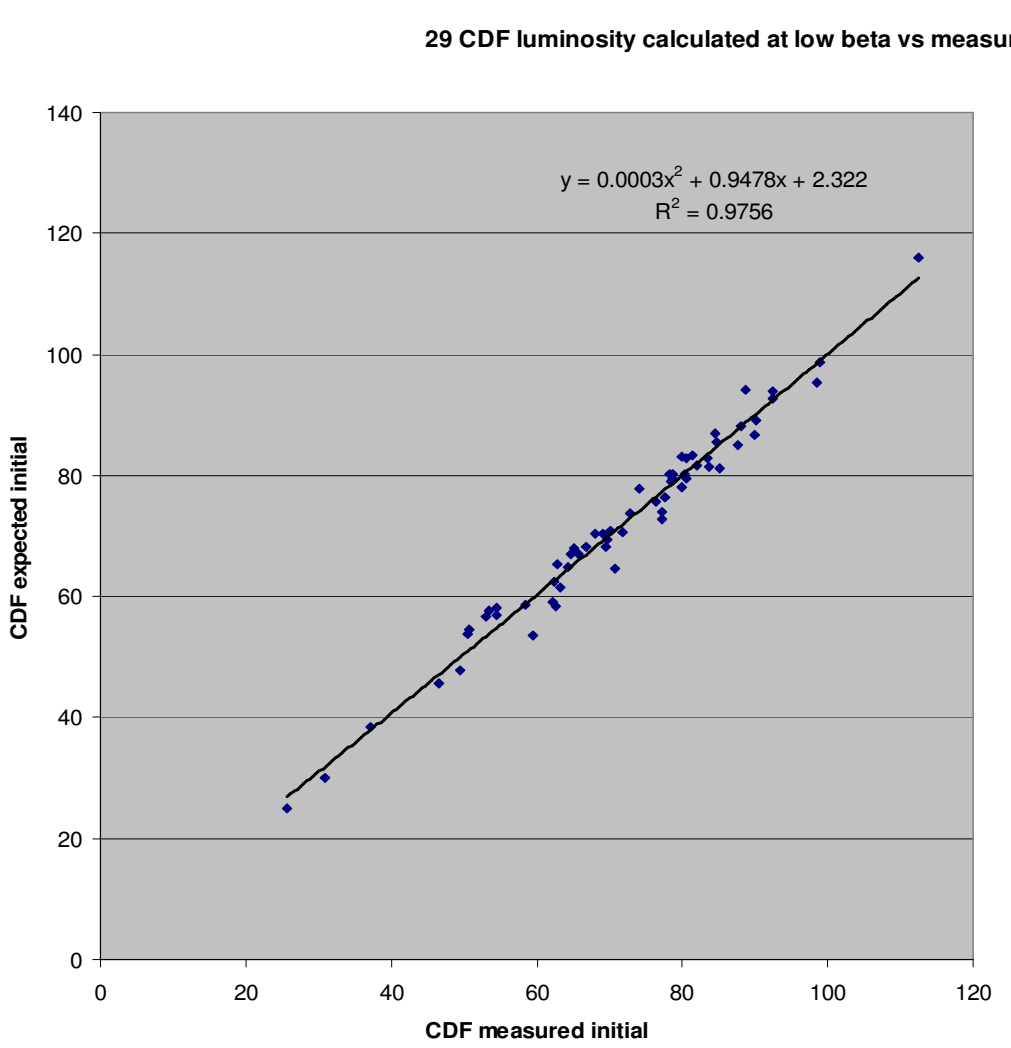

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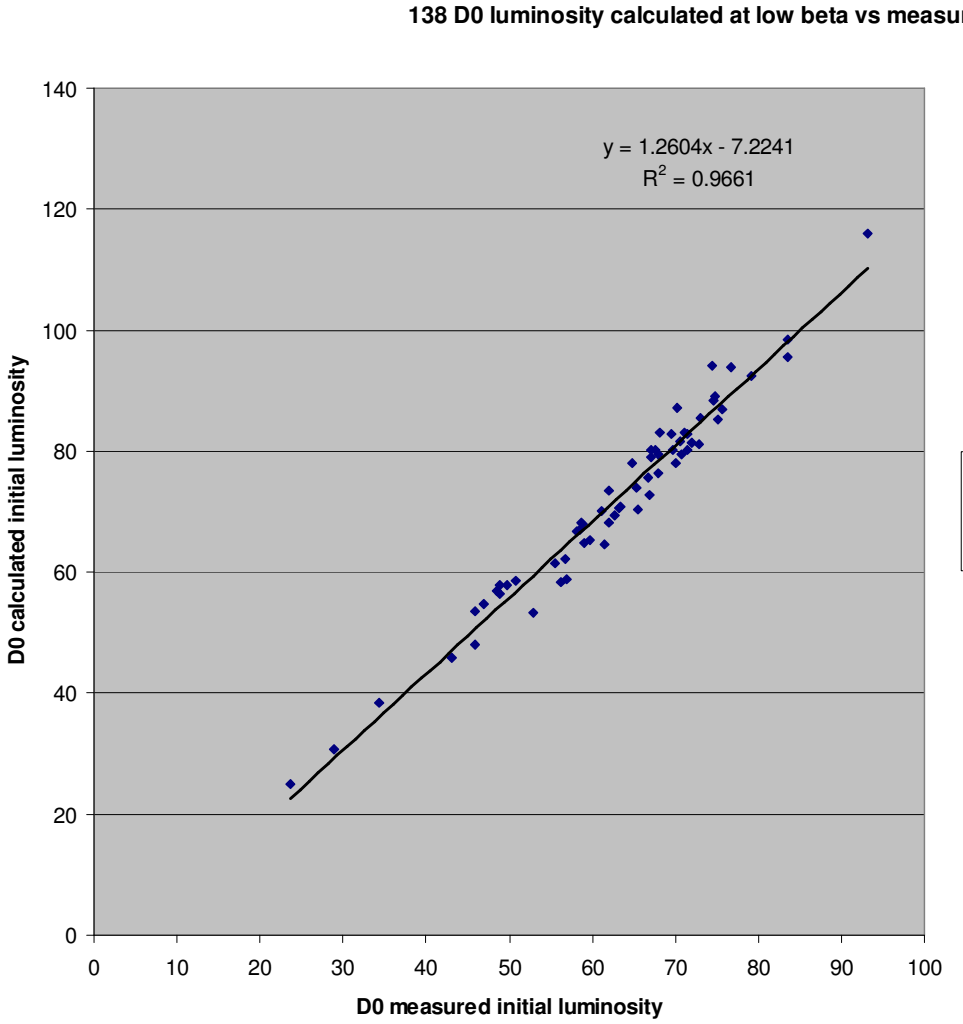
D0 calculated vs initial luminosity after the beam optics change and till August 23



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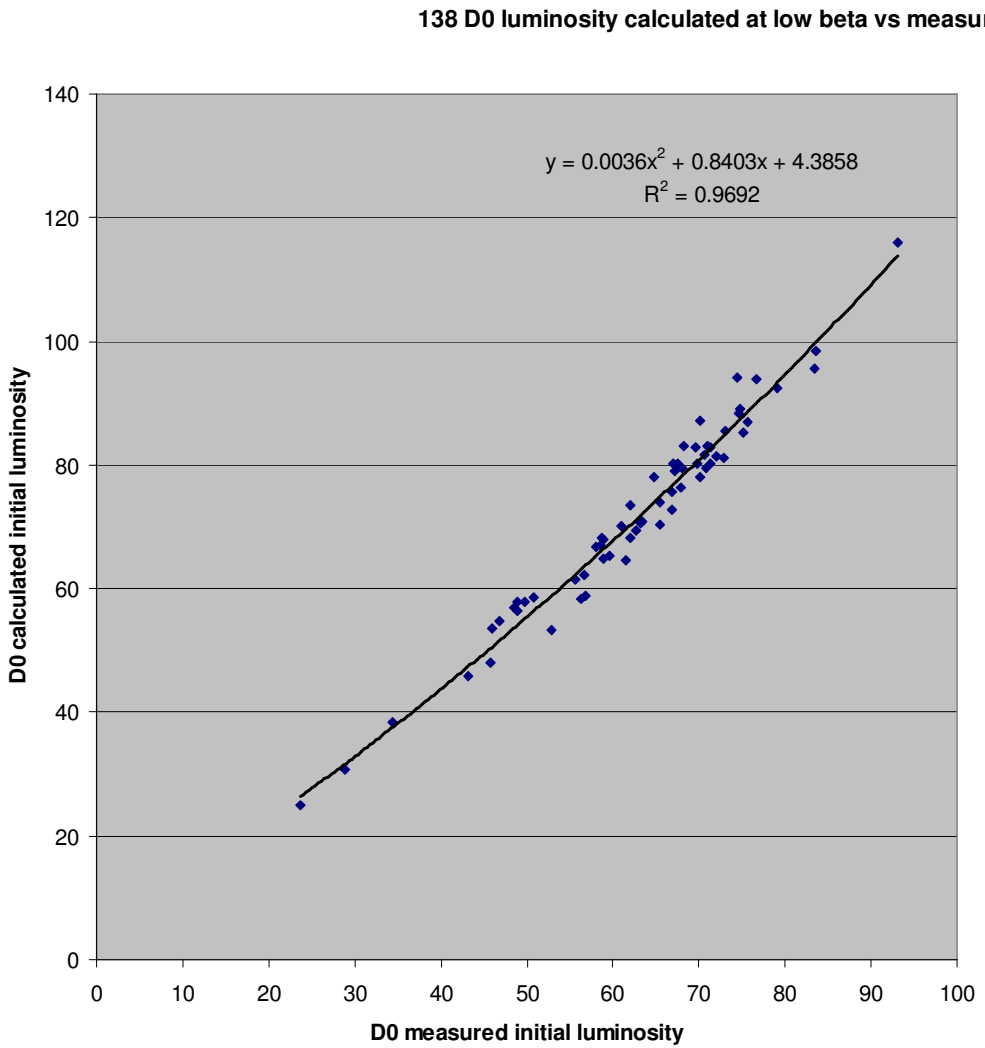
D0 calculated vs initial luminosity after the beam optics change and till August 23



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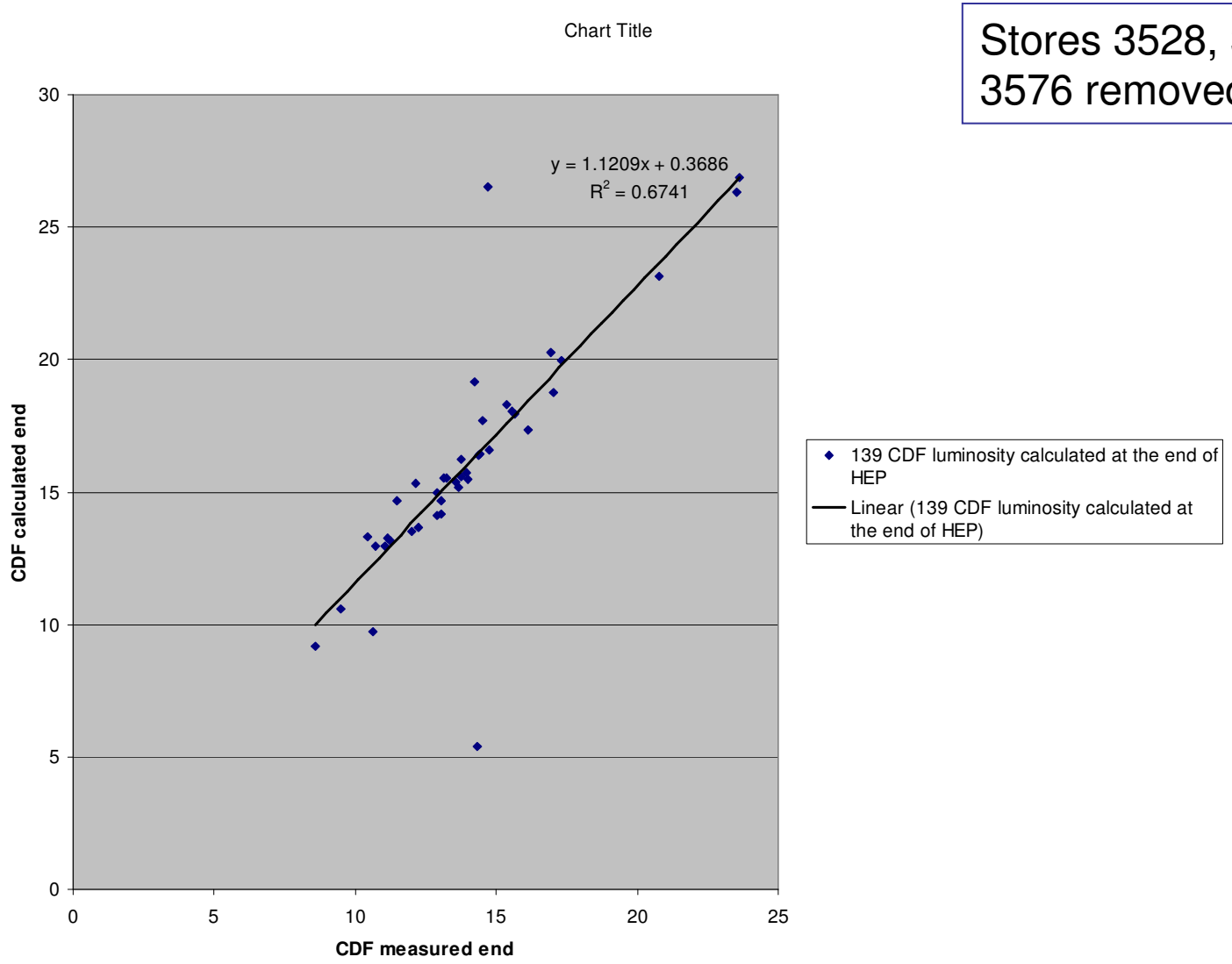
CDF calculated vs end of store luminosity after the beam optics change and till Aug. 23

Stores 3528, 3663, 3671
3576 removed



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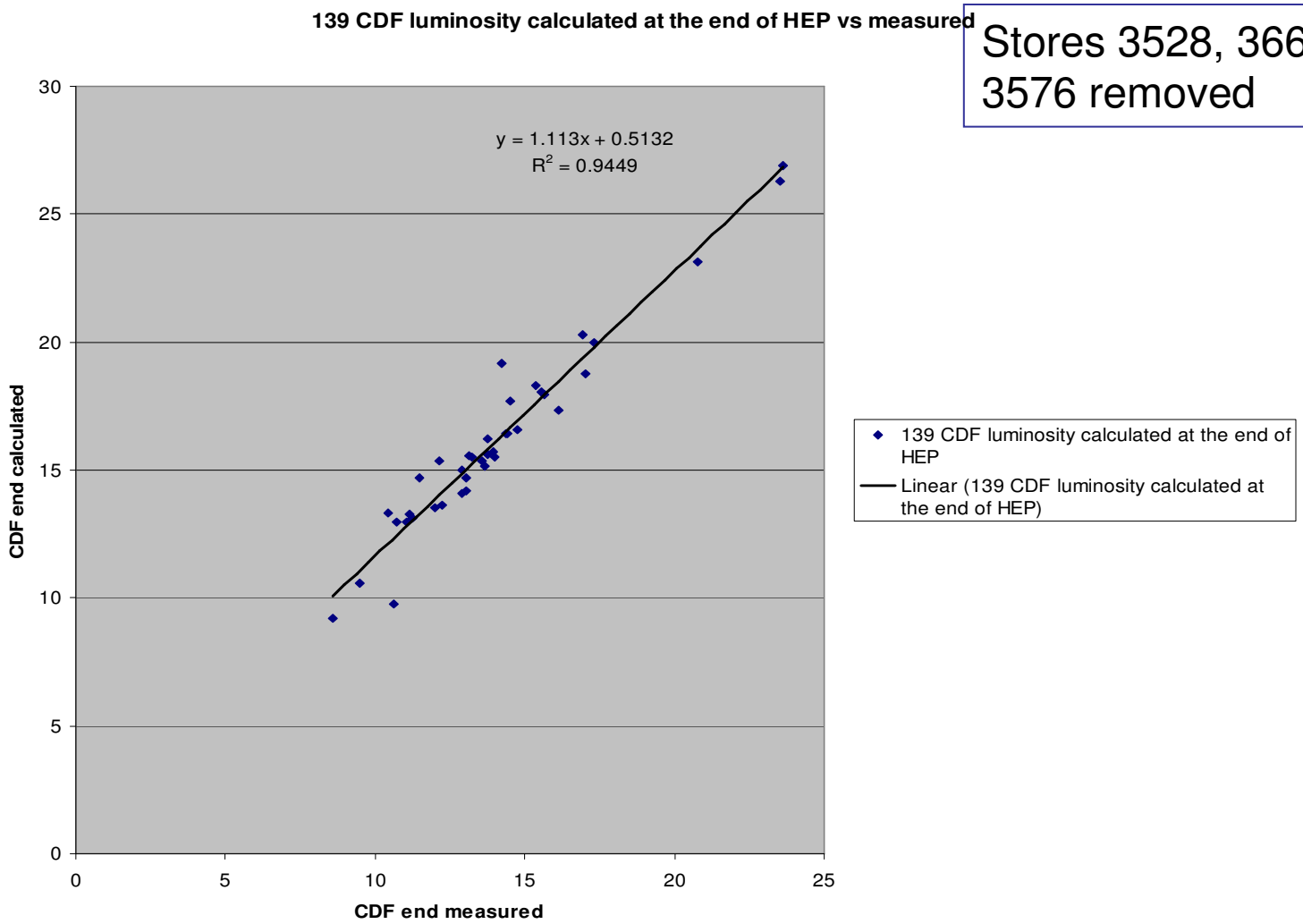

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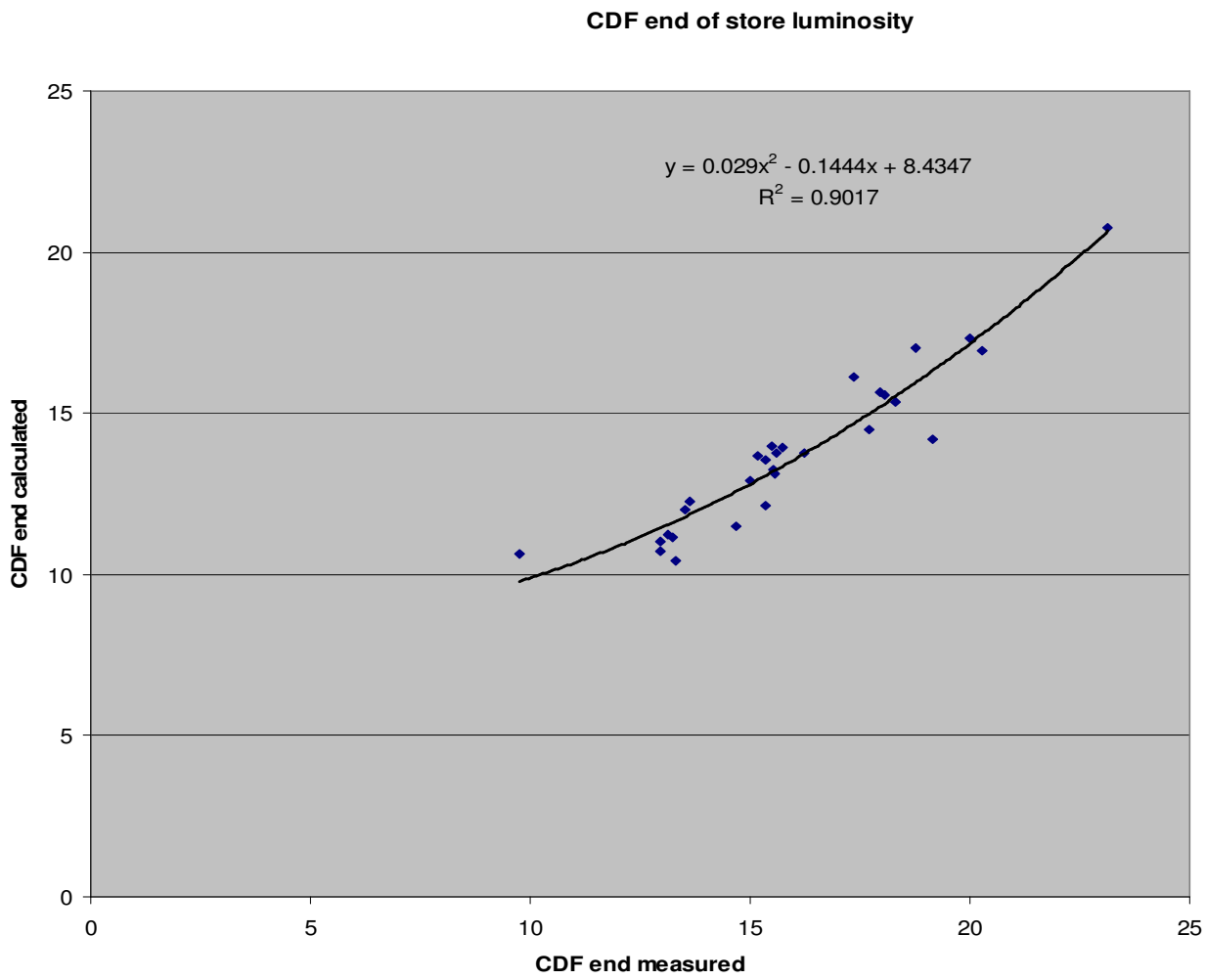

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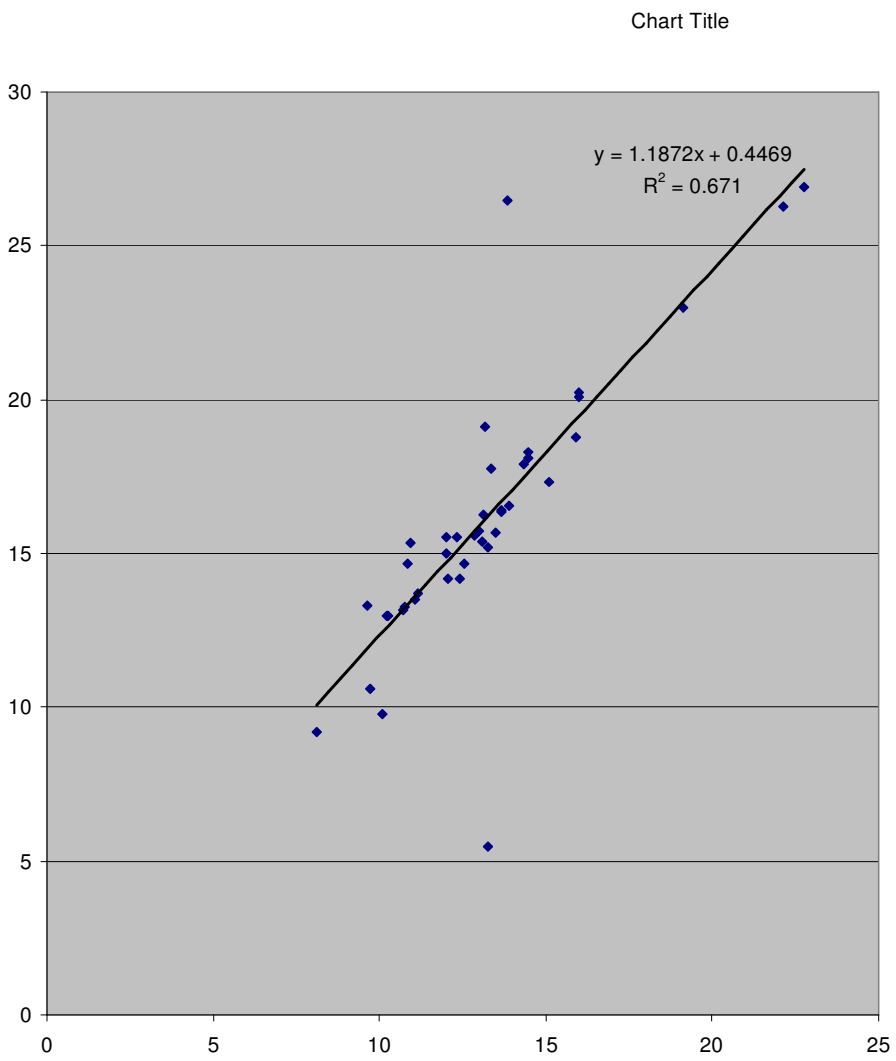

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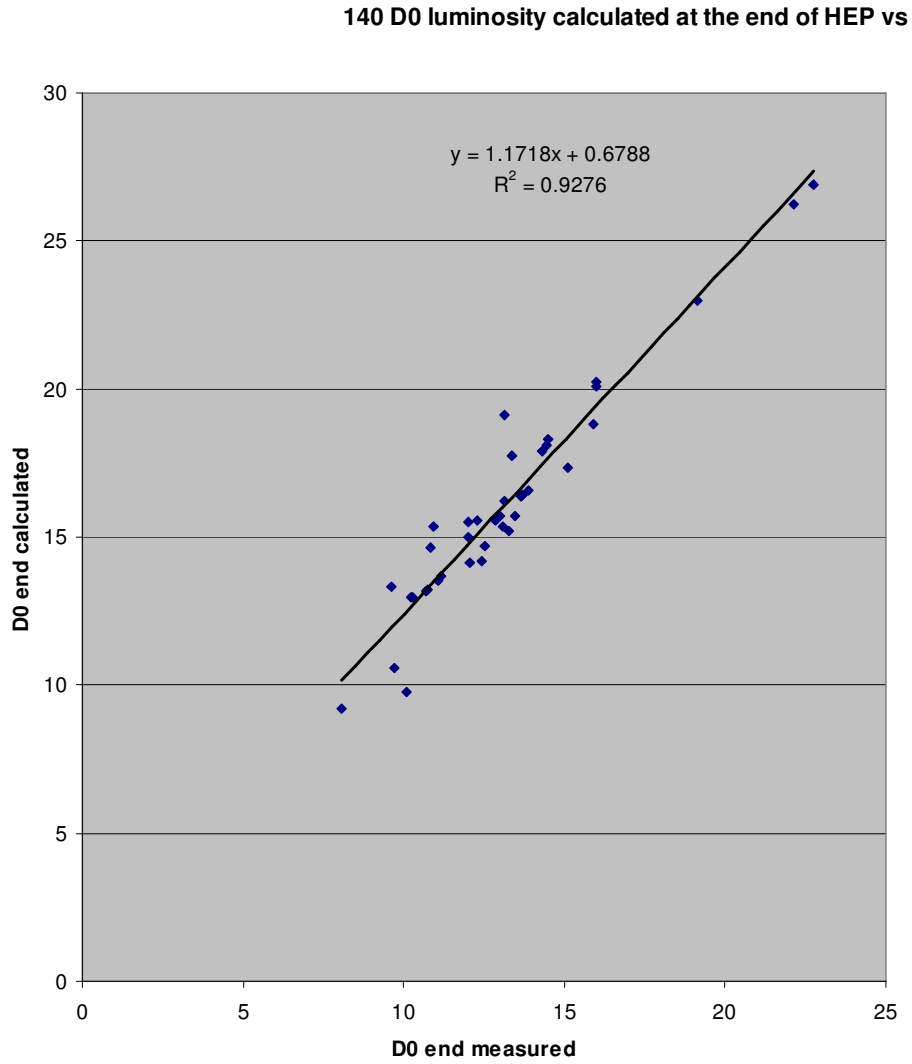

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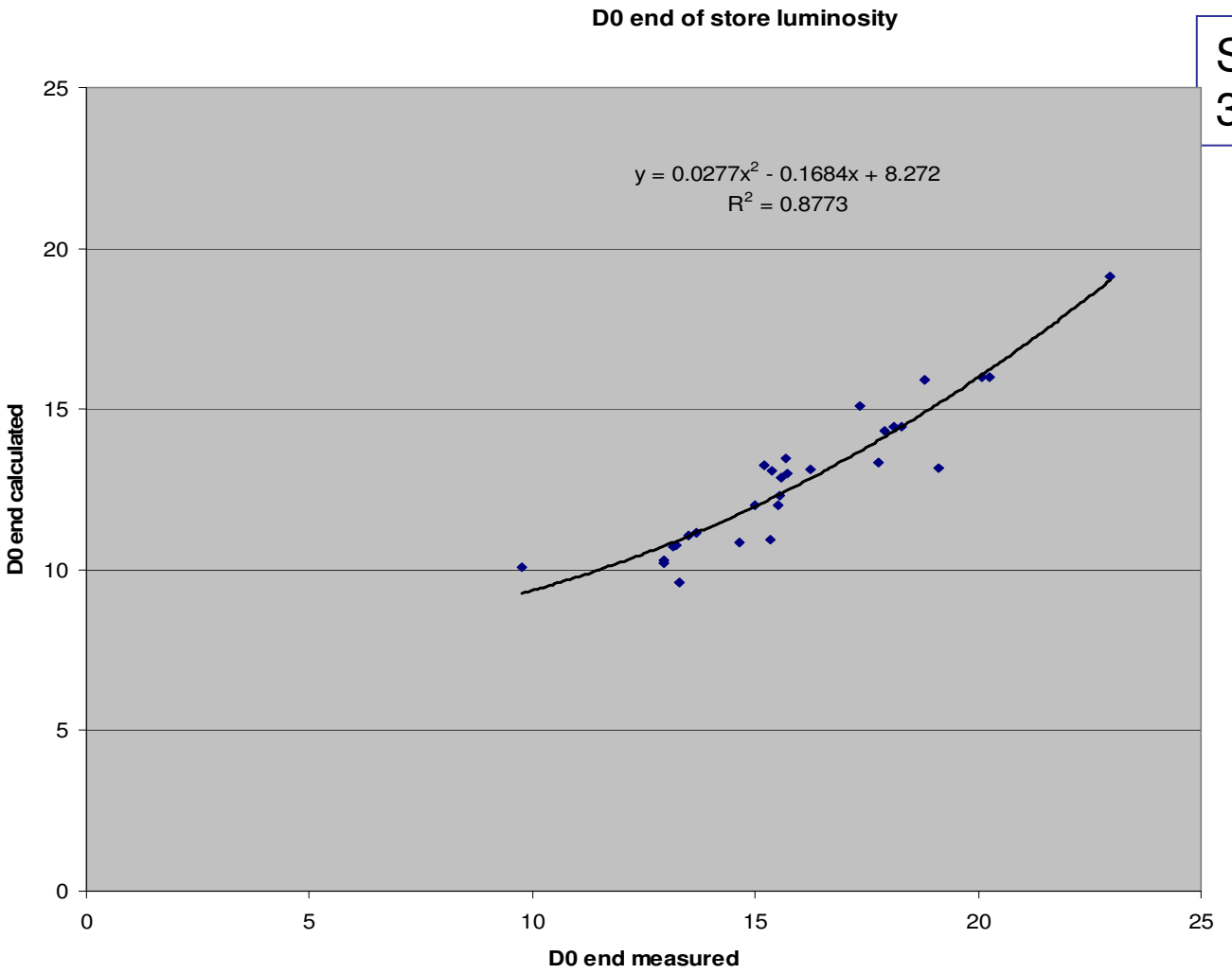

Stores 3528, 3663, 3671
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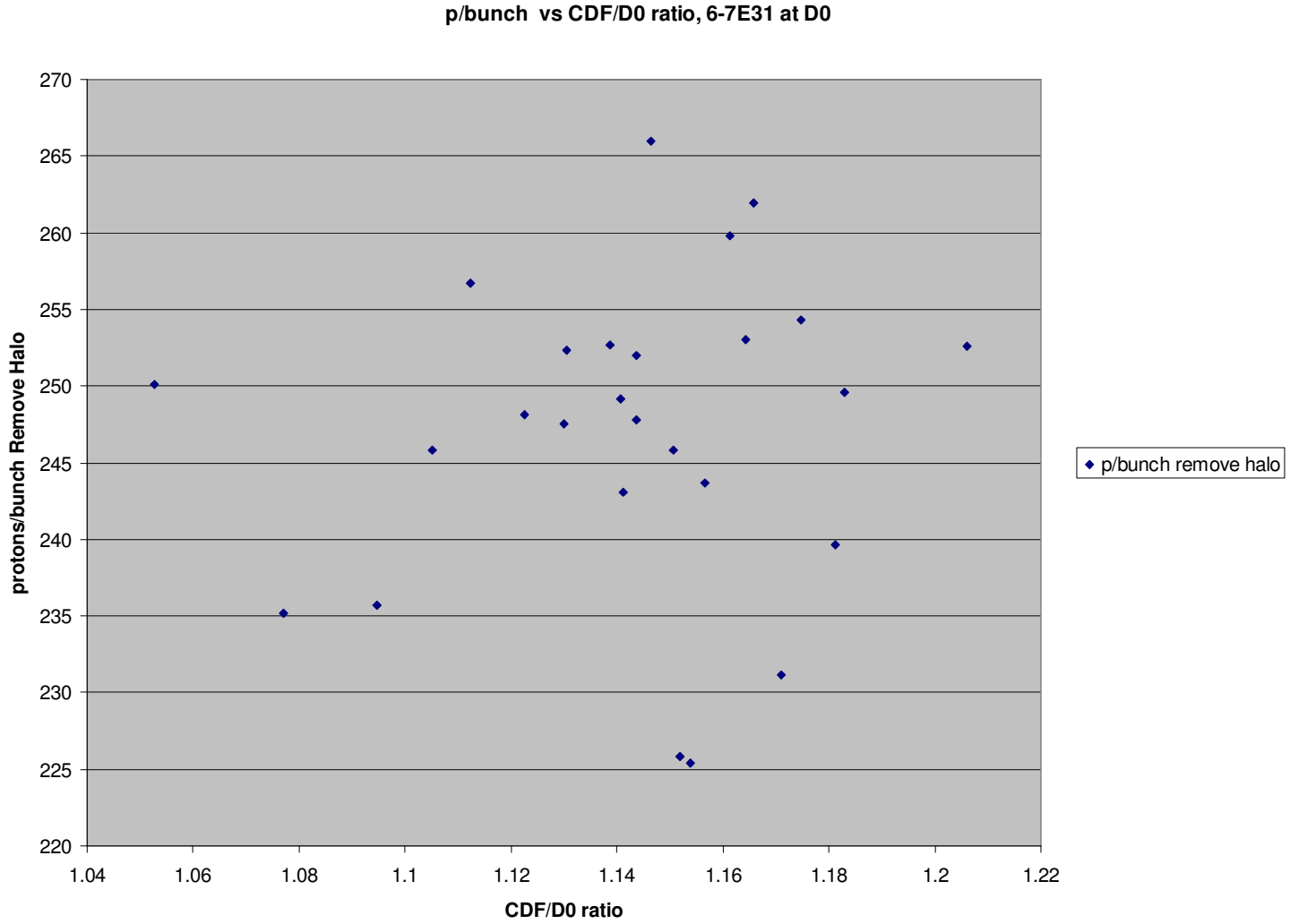
Protons per bunch at Remove Halo vs CDF/D0 ratio after the beam optics change and till Aug. 23, D0 lum 6-7E31



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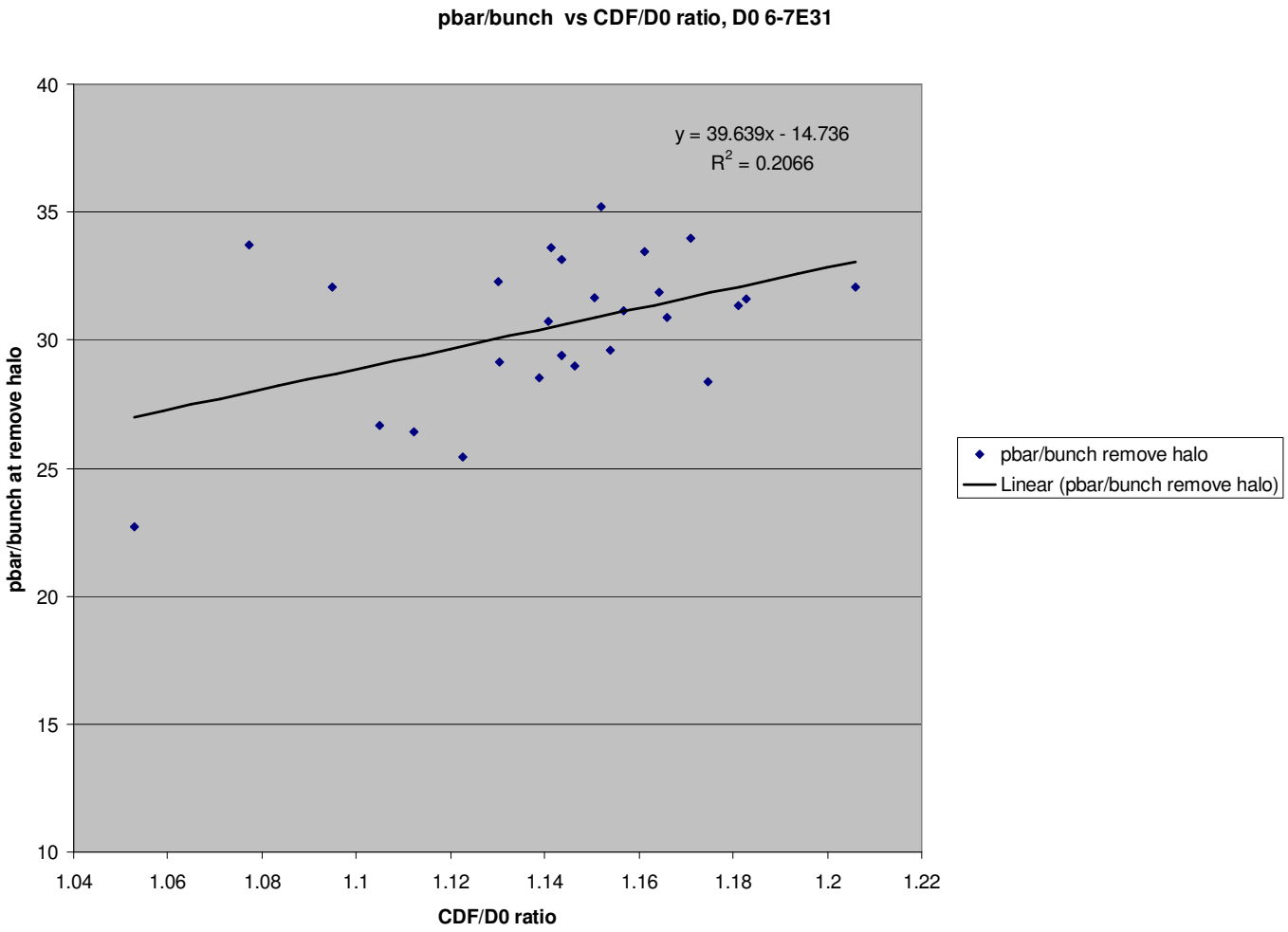
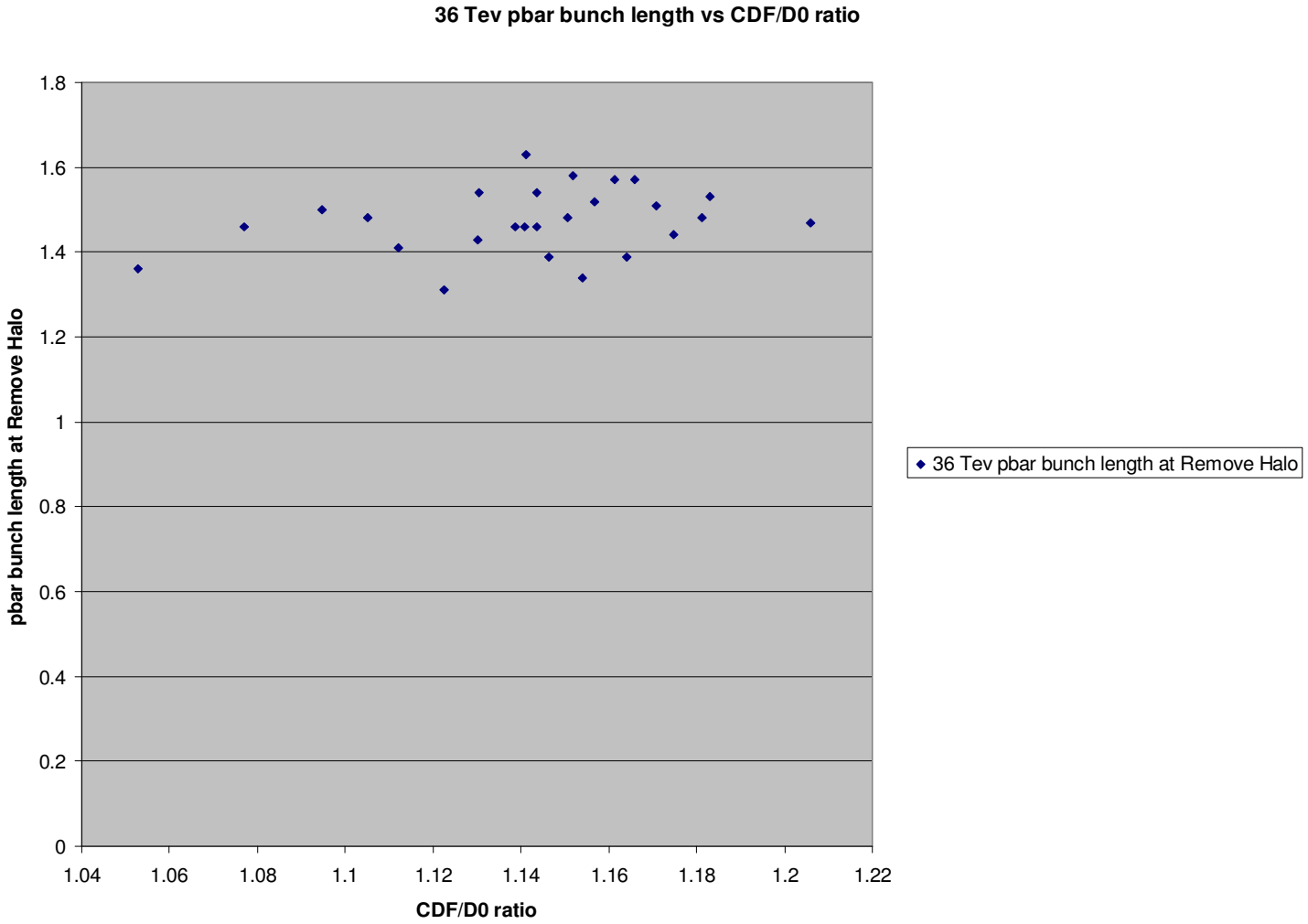


Pbar bunch length at Remove Halo vs CDF/D0 ratio after the beam optics change and till Aug. 23, D0 lum 6-7E31



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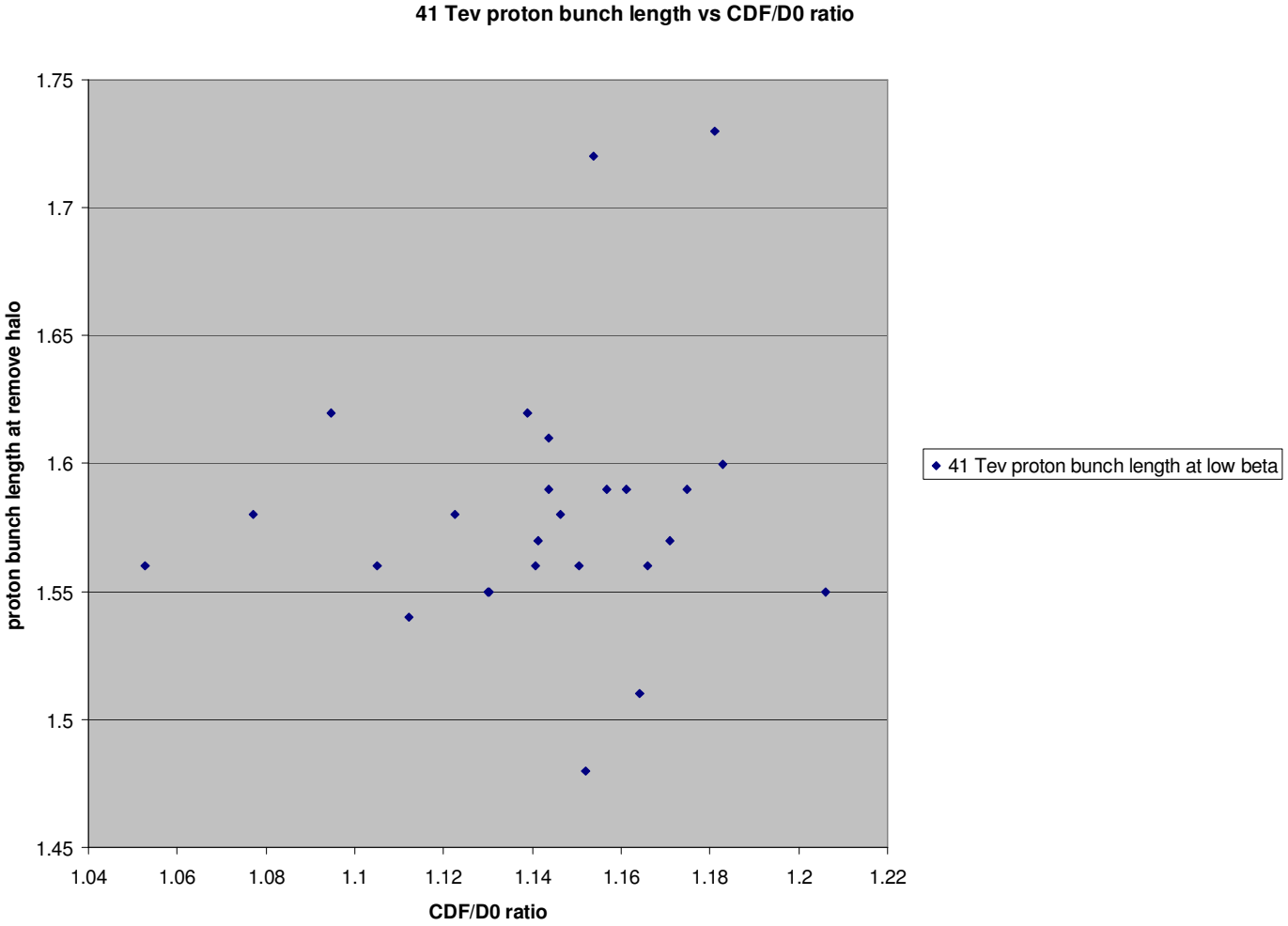
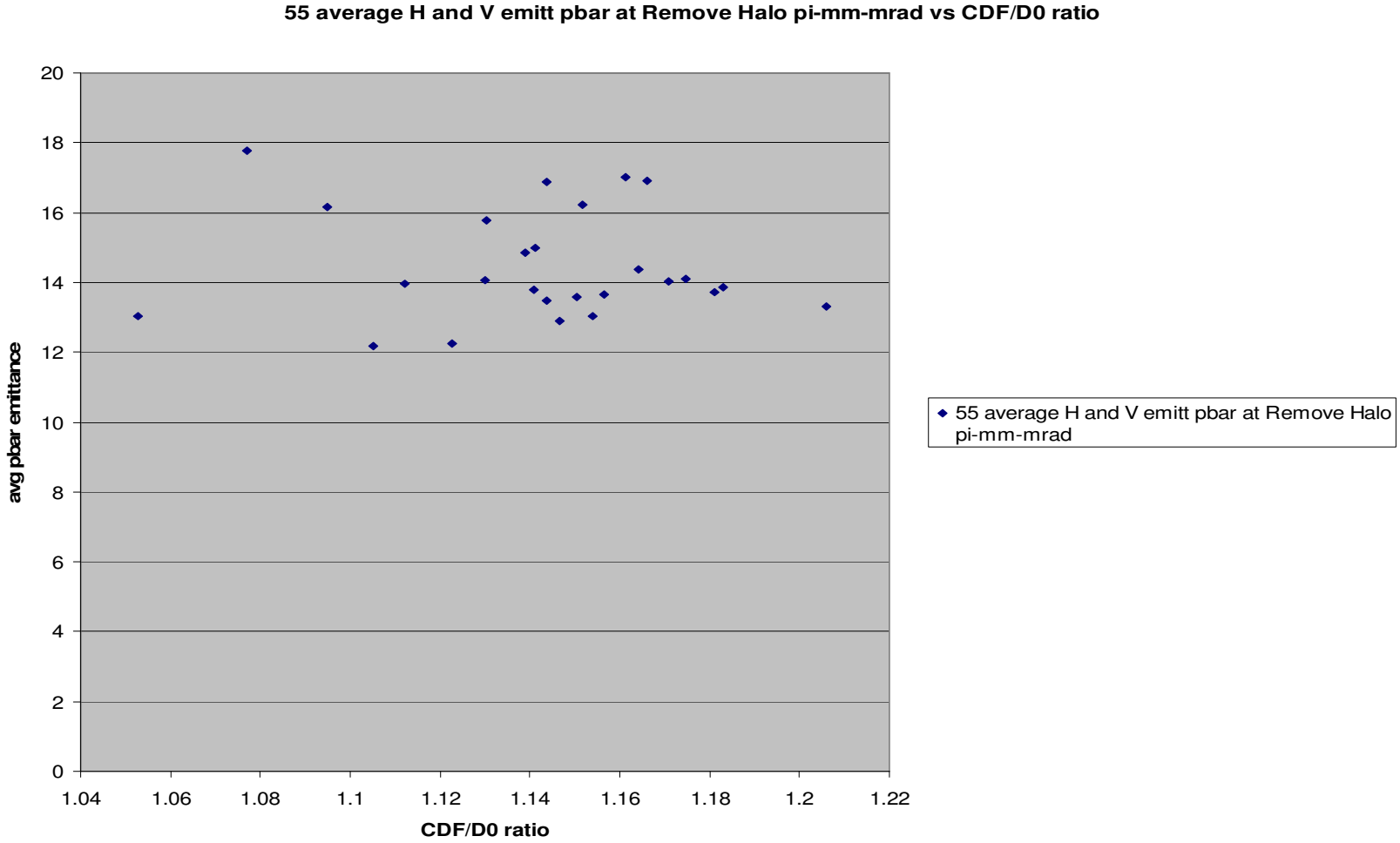


Pbar emittance at Remove Halo vs CDF/D0 ratio after the beam optics change and till Aug. 23, D0 lum 6-7E31



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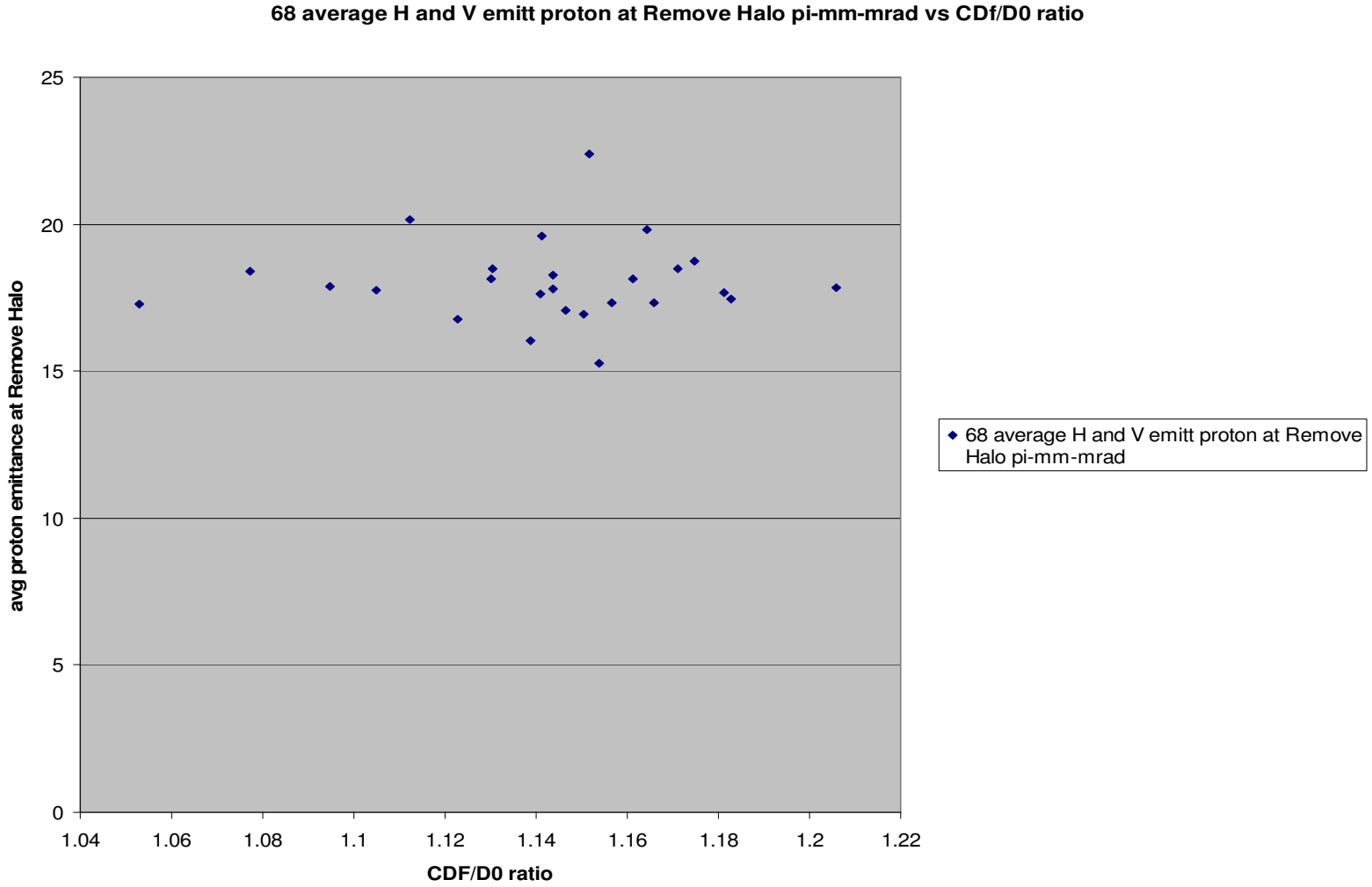
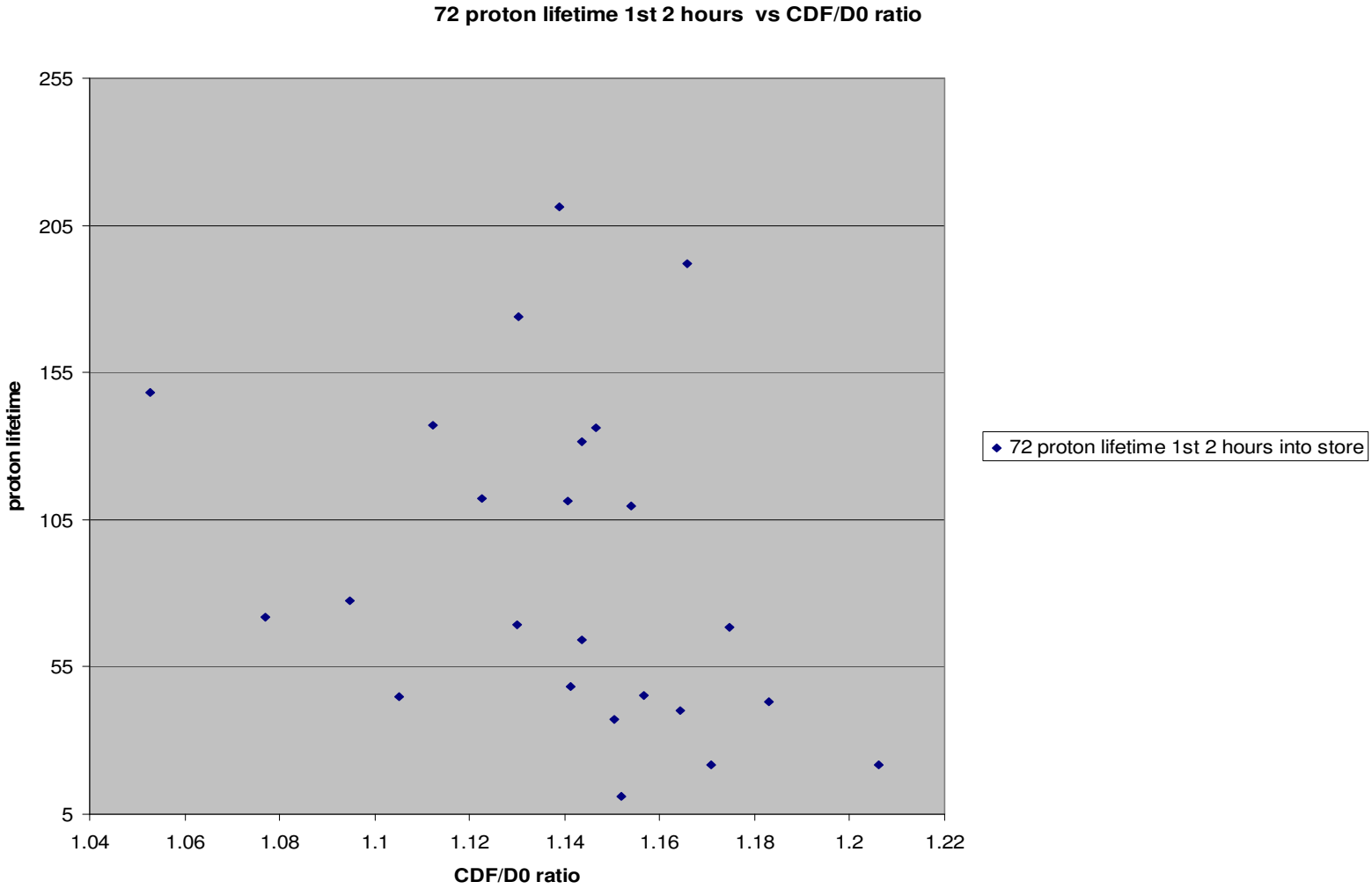


Proton lifetime at Remove Halo vs CDF/D0 ratio after the beam optics change and till Aug. 23, D0 lum 6-7E31



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