

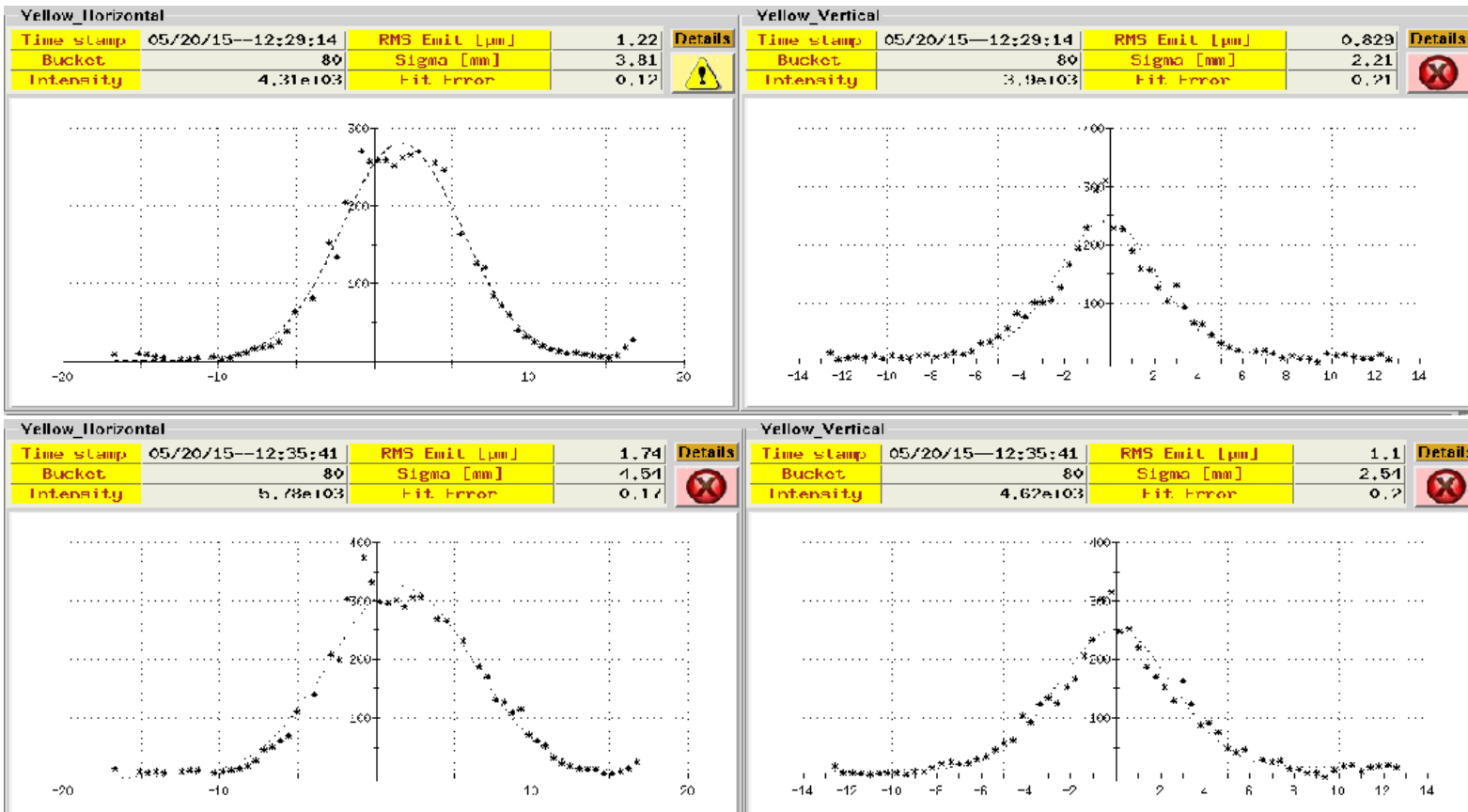
# Aperture Test for Low Energy Asymmetric Runs

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- Changed DX-D0 angles at Au injection to achieve collision orbit
- Increased emittance with BBQ kickers and observed with IPM
- Measured emittances increased only by 20 percent, indicating that a 20 percent lower energy than regular injection would be the lower limit
- Why horizontal emittance (aperture) is larger than vertical one is still a mystery

## IPM profiles



Emittances increased from 3.8 to 4.5 microns horizontally, and from 2.2 to 2.5 microns vertically due to BBQ kicking