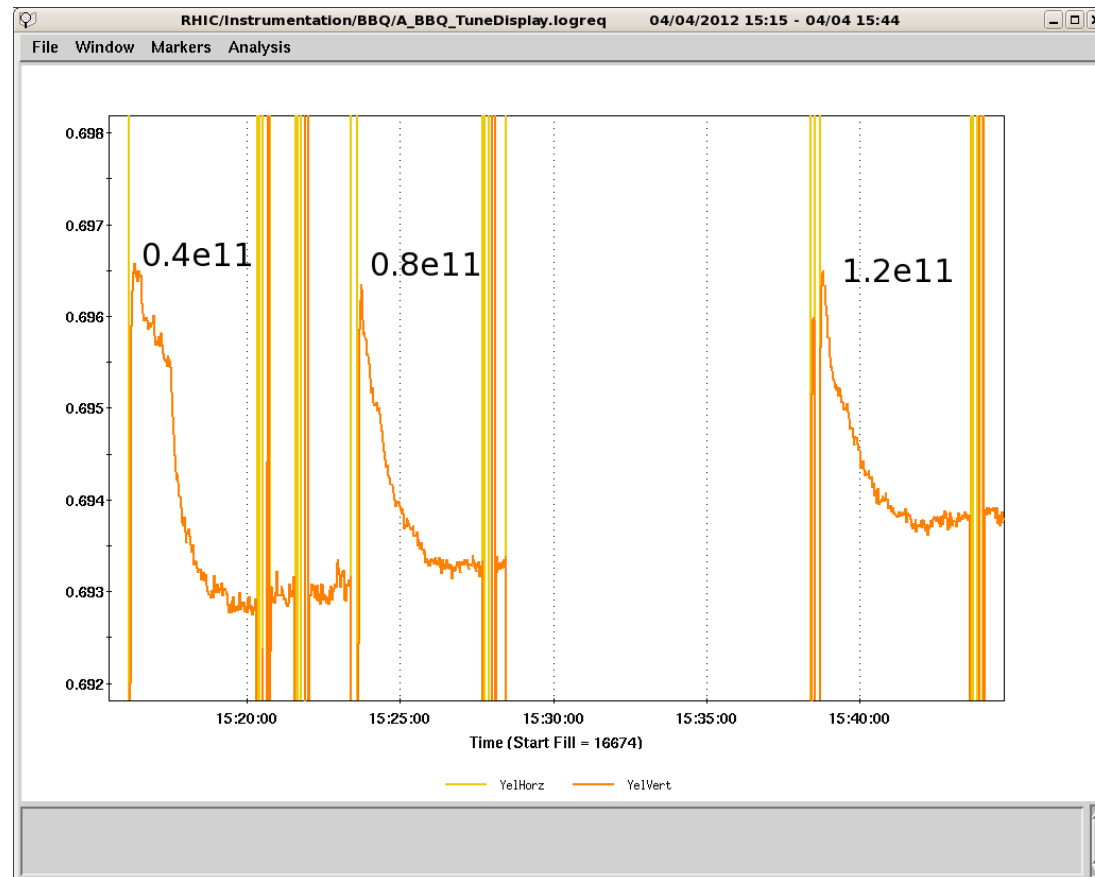
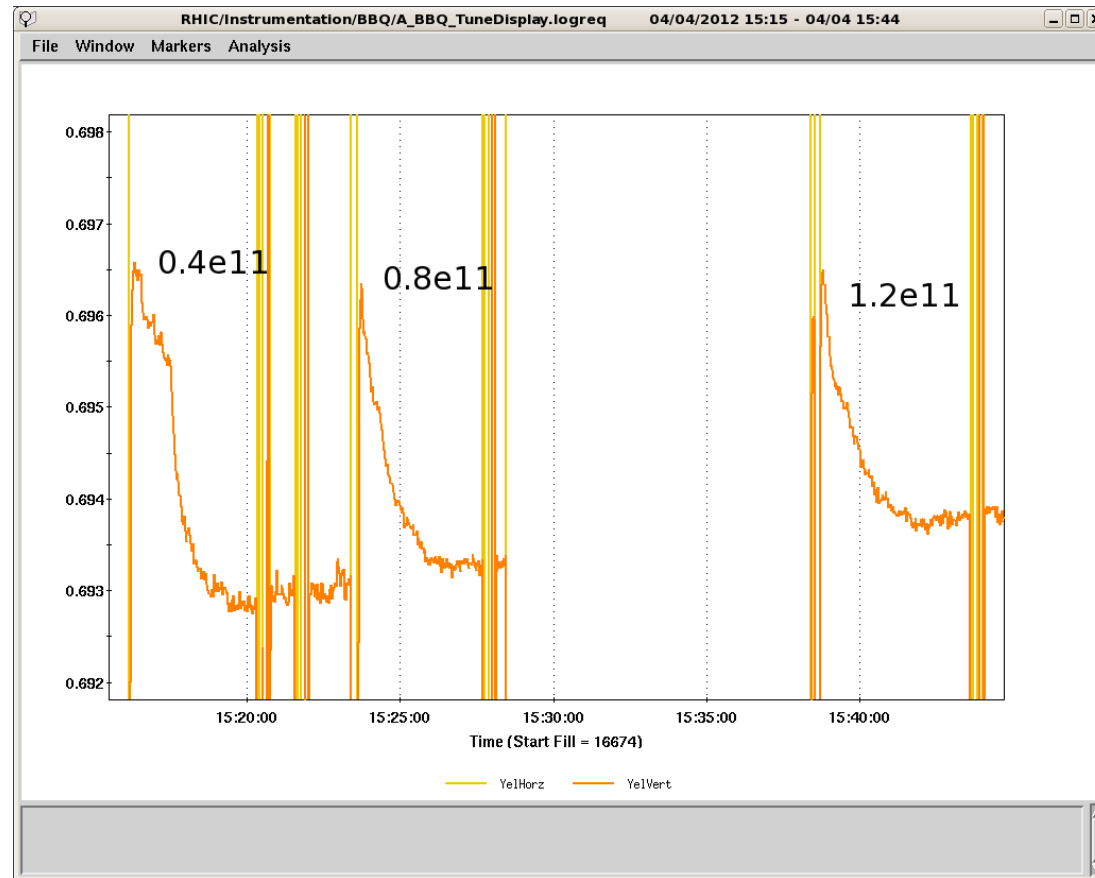


# Horizontal tunes



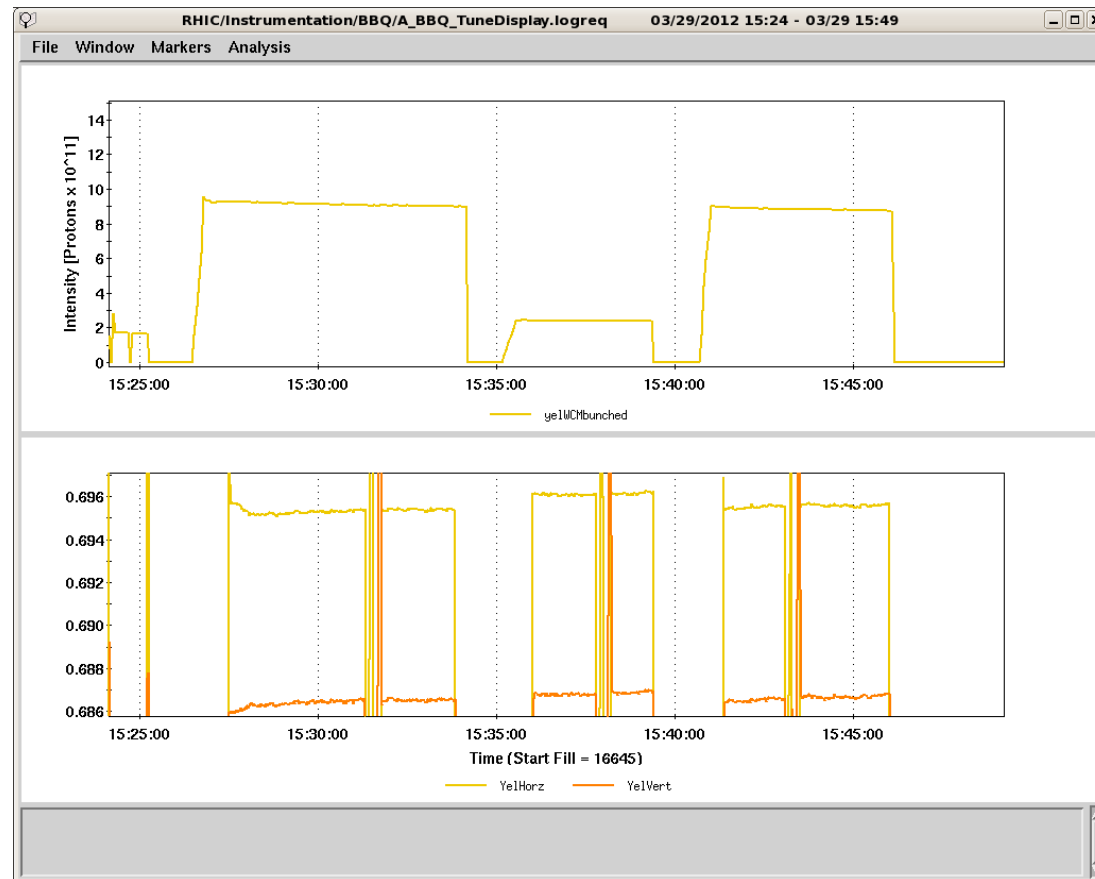
Horizontal tune increases with intensity during impedance measurement, with 56 bunches

# Vertical tunes



Vertical tune increases with intensity during impedance measurement, with 56 bunches

## Tunes during preliminary 6-bunch test



Both tunes decrease with intensity, as they should

## Summary

- Impedance measurement is still hampered by BBQ deficiencies (saturation?)
- This also means that during feedback ramps, RHIC tunes are intensity dependent
- The higher the intensity, the higher the *measured* tune
- With feedback, the real tune gets lowered towards  $2/3$  with increasing intensity