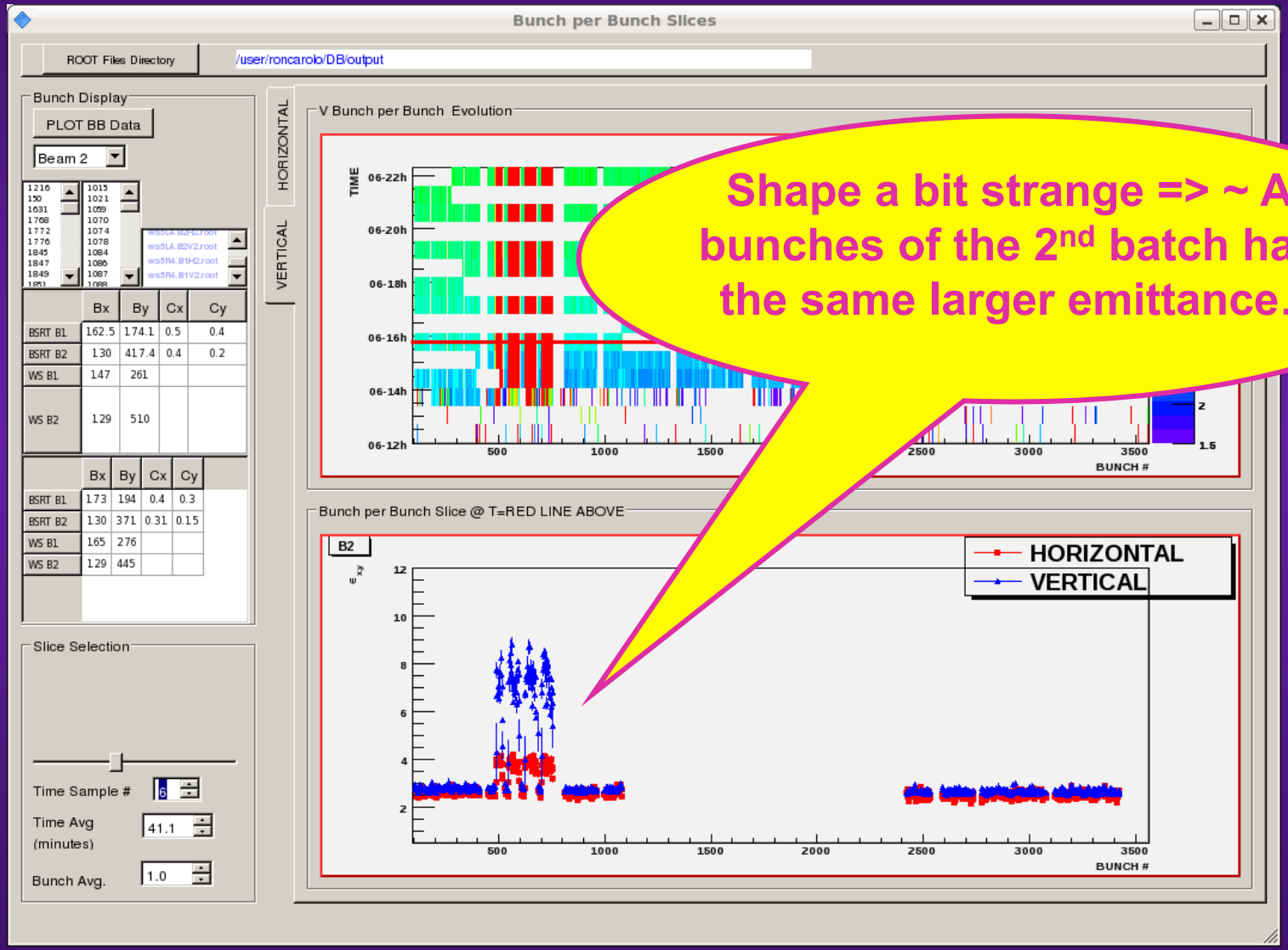
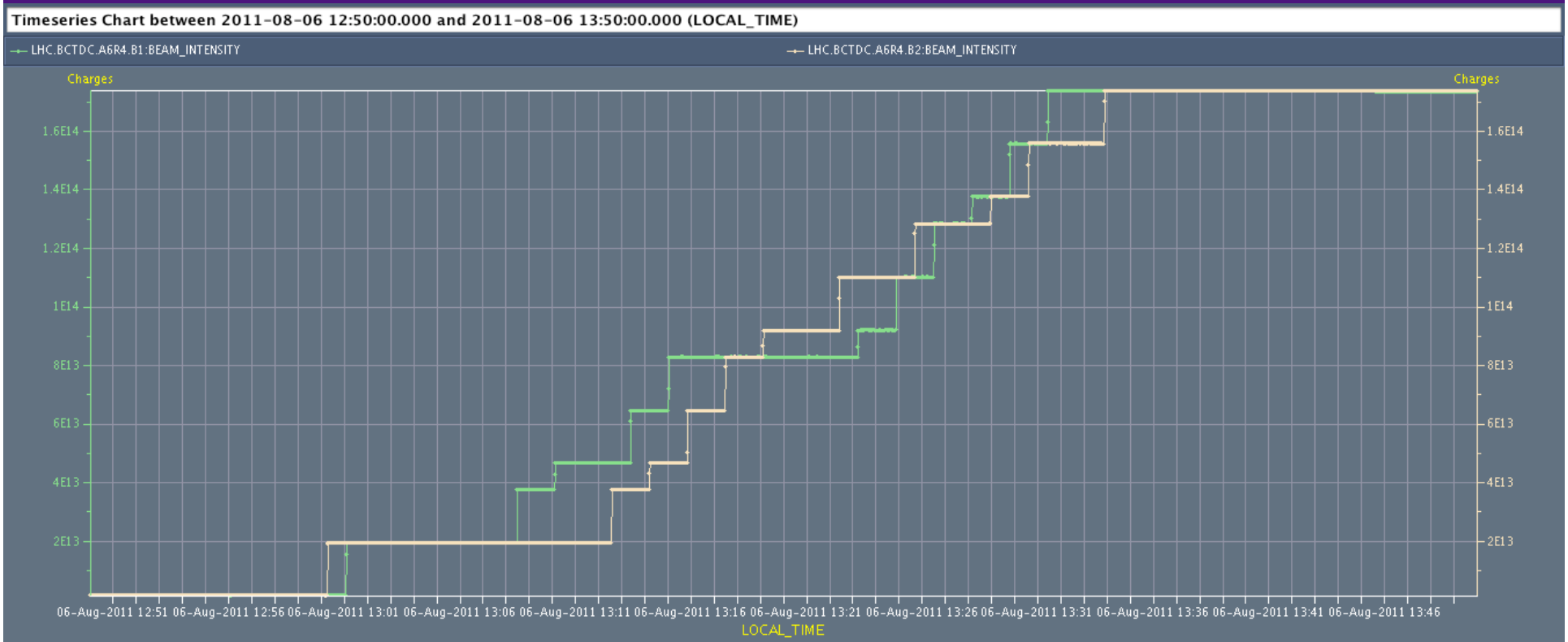
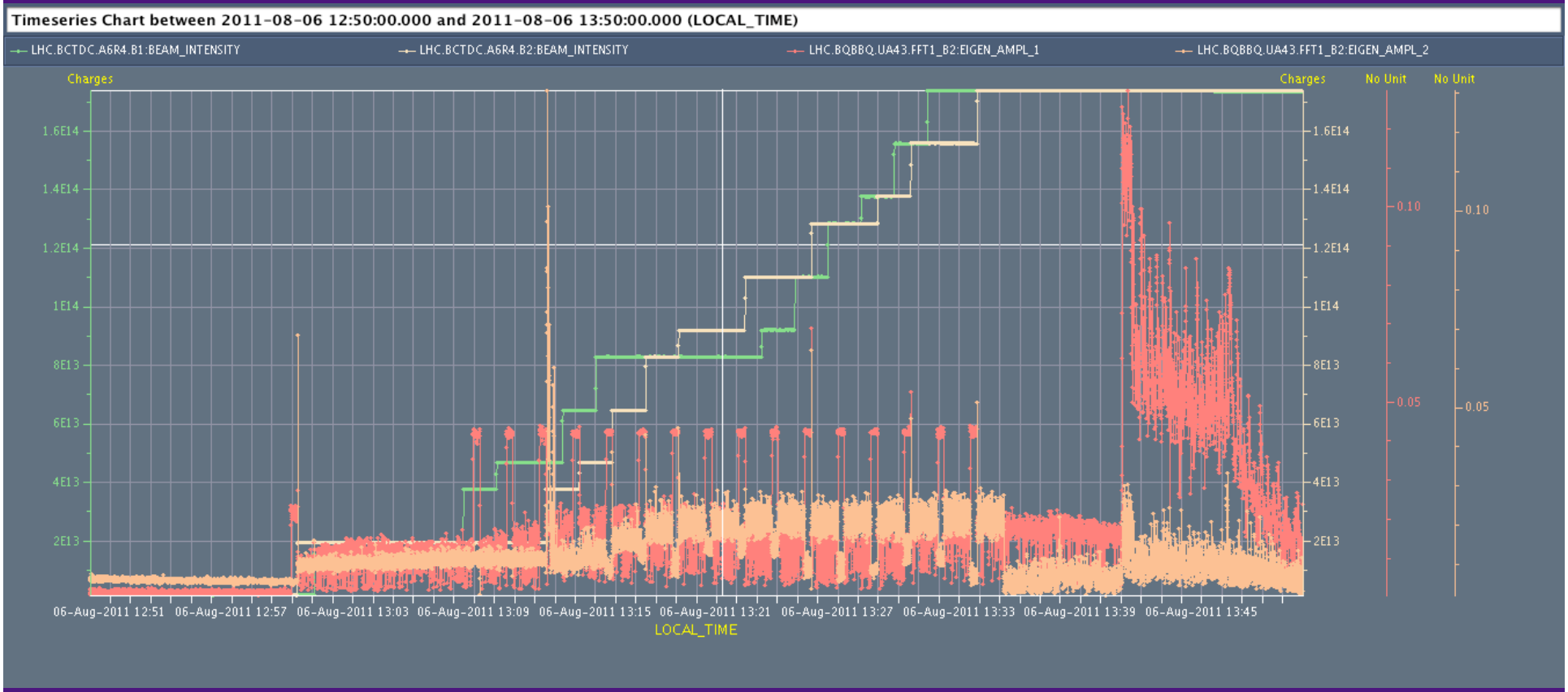
1-batch BU seen on 06/08/11 (1/9)



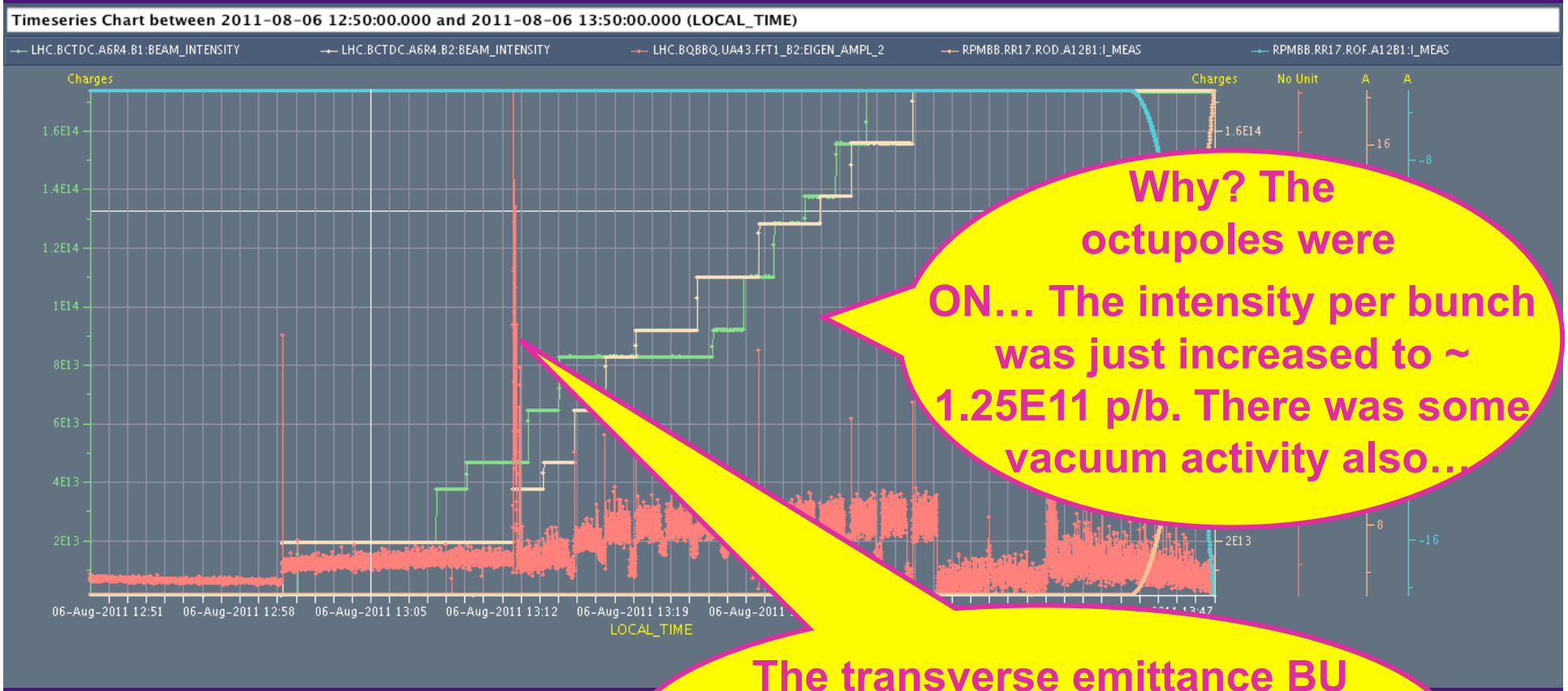
1-batch BU seen on 06/08/11 (2/9)



1-batch BU seen on 06/08/11 (3/9)



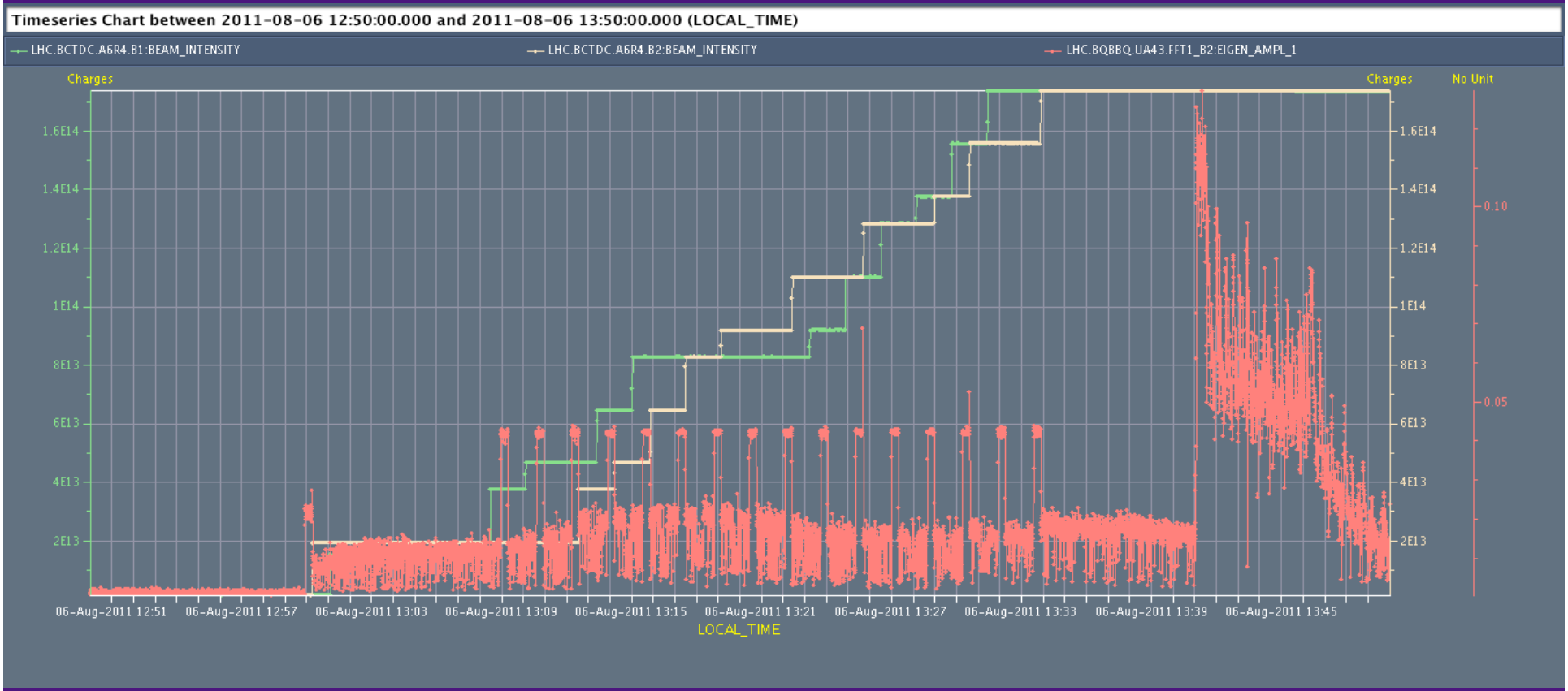
1-batch BU seen on 06/08/11 (4/9)



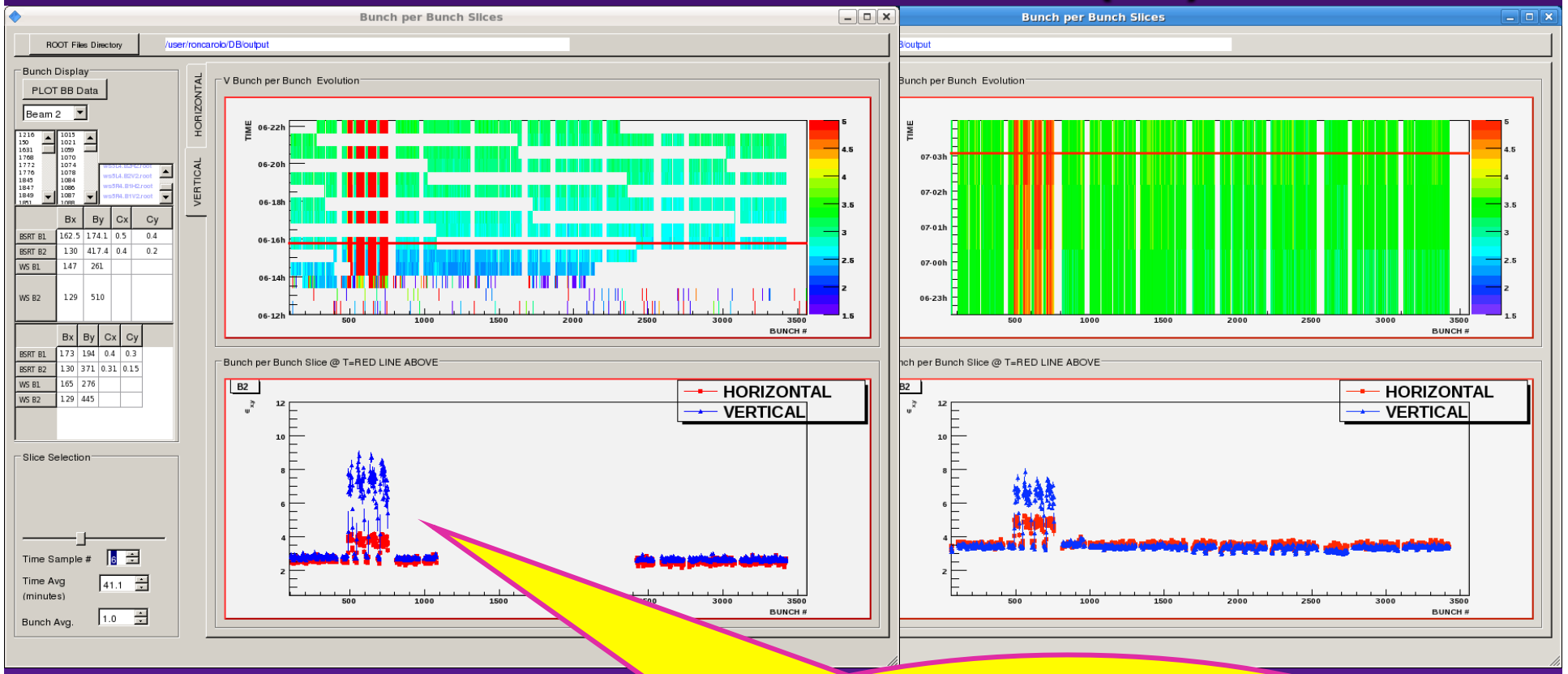
Why? The octupoles were ON… The intensity per bunch was just increased to ~ 1.25E11 p/b. There was some vacuum activity also…

The transverse emittance BU on the 2nd batch of B2 seems to be correlated to some coherent motion in V

1-batch BU seen on 06/08/11 (5/9)

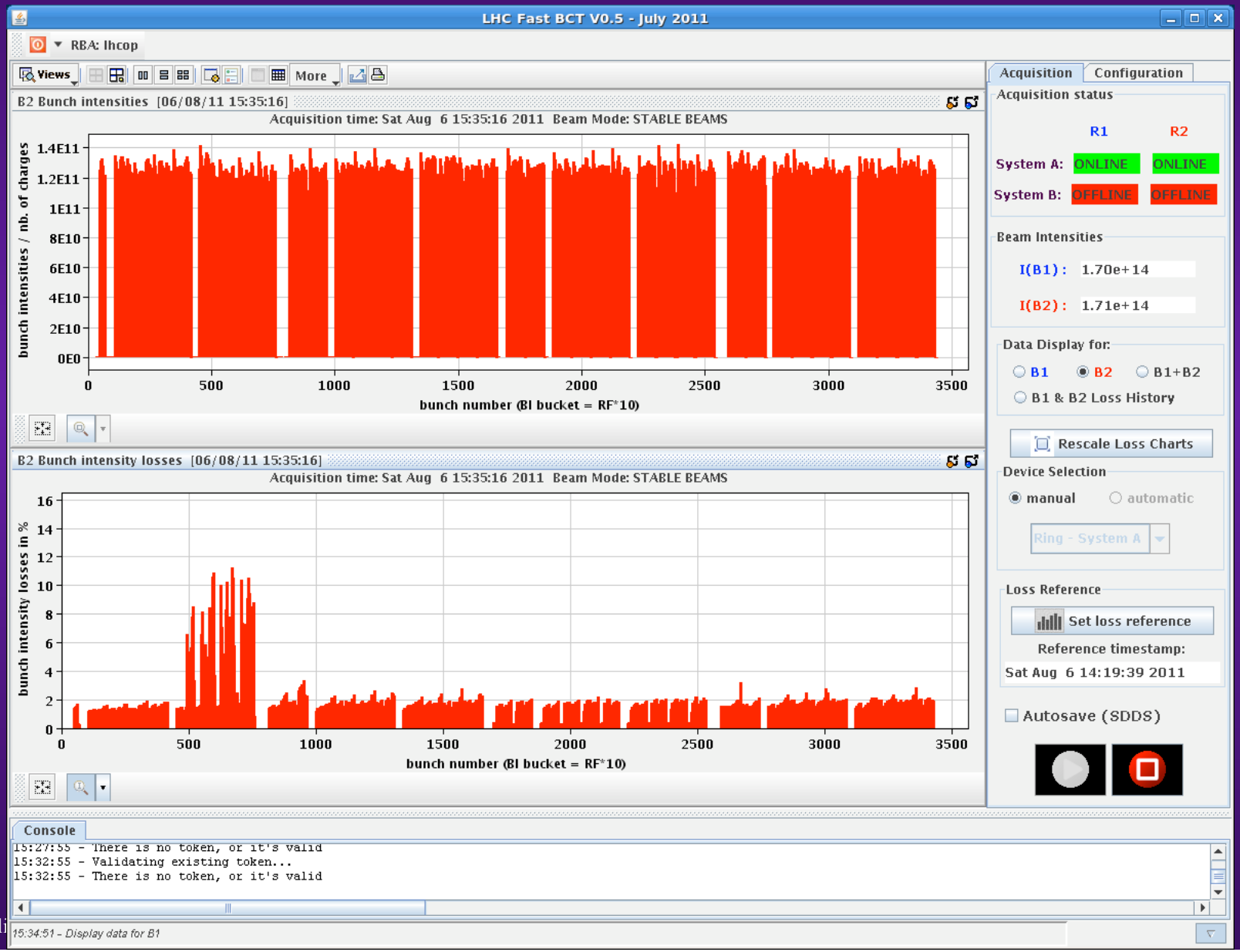


1-batch BU seen on 06/08/11 (6/9)



The perturbed emittances are ~ constant over many hours => Can we explain this emittance BU by a factor ~2-3 in V by the coherent ecloud regime? => Action discussed at the last Ecloud meeting

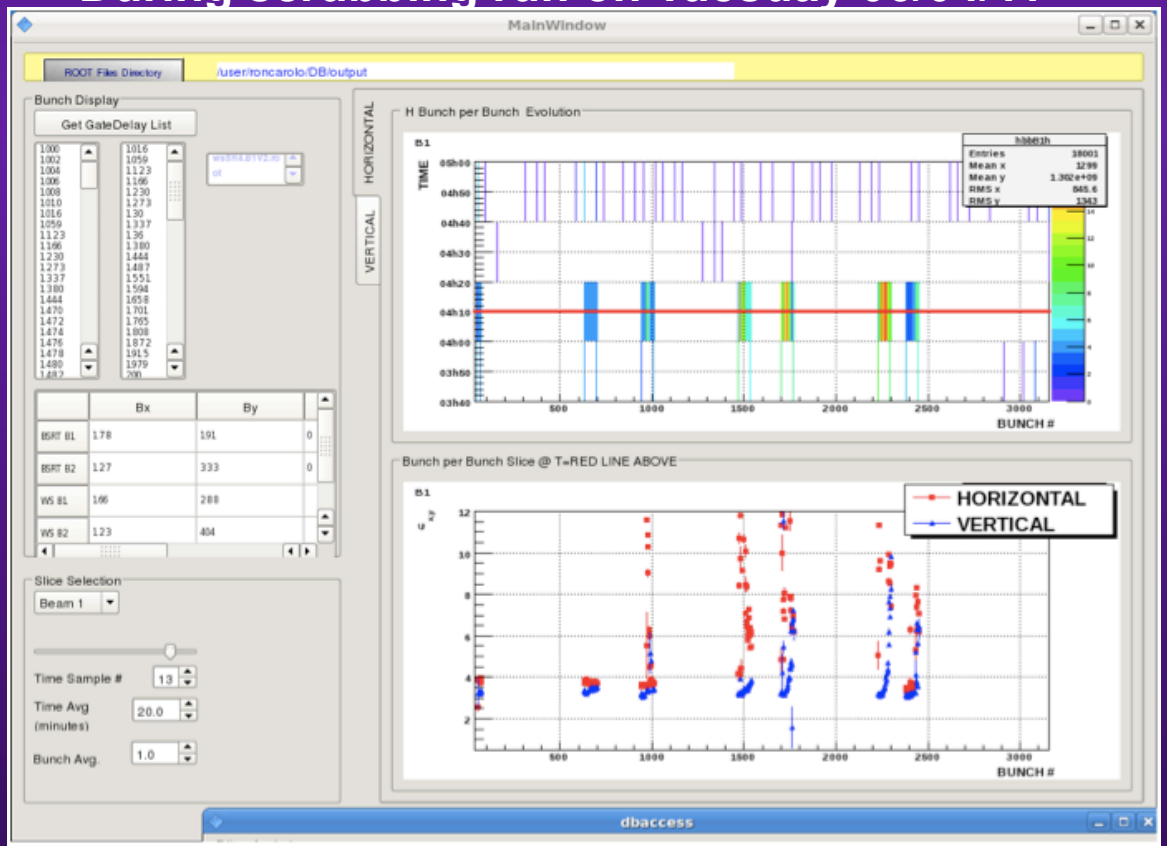
1-batch BU seen on 06/08/11 (7/9)



1-batch BU seen on 06/08/11 (8/9)

- **NEXT ? => As discussed during yesterday's ecloud meeting, in addition to looking at the thresholds and rise-times, can't we also try to compare the final emittances obtained (after the transient) as these are "clear" observables?**

During scrubbing run on Tuesday 06/04/11



1-batch BU seen on 06/08/11 (9/9)

450 GeV

Final emittances? => We could compare to measurements and associate to each emittance measurement an ecloud density… But, 1st try and check with simulations that this value is "reliable"…

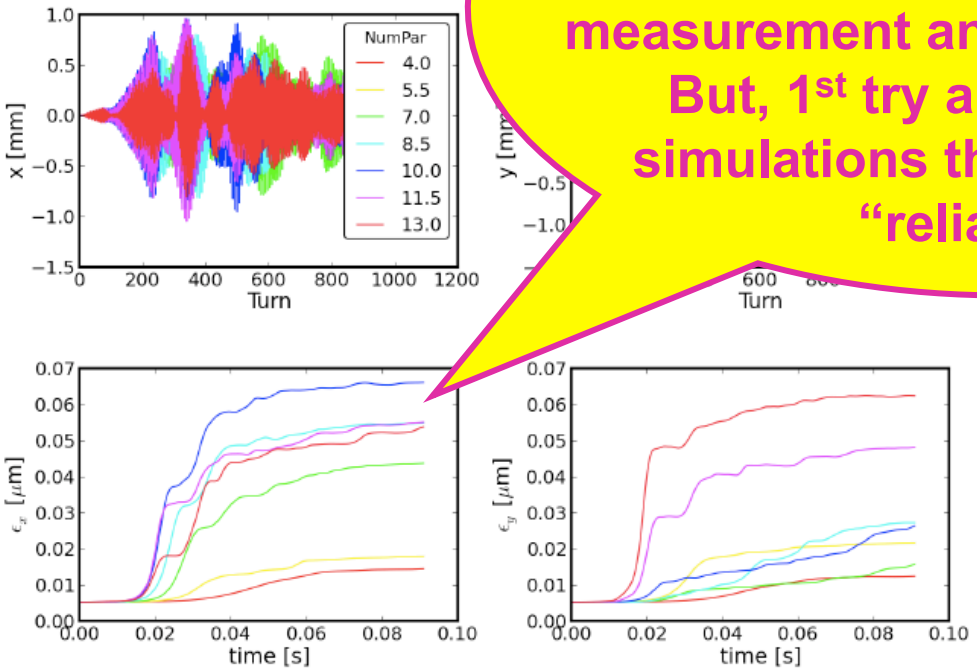


Figure: "NumPar" in units 10^{10} m^{-3}. Electron cloud density at $6 \cdot 10^{11}$.