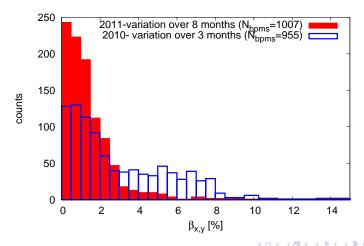
```
\begin{array}{c} \text{Injection} \\ \text{Optics - } Q_{\text{X}} = 0.43, \, Q_{\text{y}} = 0.46 \\ \text{Measurement and correction-} \ Q_{\text{X}} = 0.43, \, Q_{\text{y}} = 0.46 \\ \text{Stopband-} \ Q_{\text{X}} = 0.43, \, Q_{\text{y}} = 0.46 \\ \text{Summary} \\ \text{Summary} \end{array}
```

## Optics correction near half integer tunes

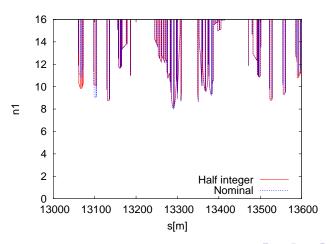
R. Calaga, E. Maclean, T. Persson, P. Skowronski, R. Steinhagen, R. Tomás García, G. Vanbavinckhove and S. White

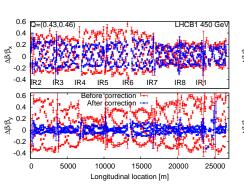
November 8, 2011

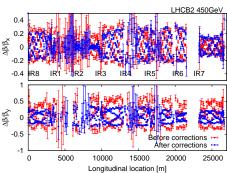
## Measurement at injection, nominal optics:

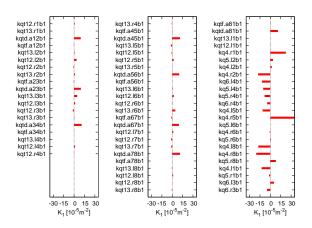


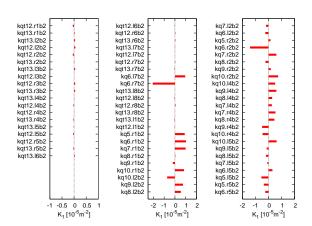
## Aperture around $IP_5$ :

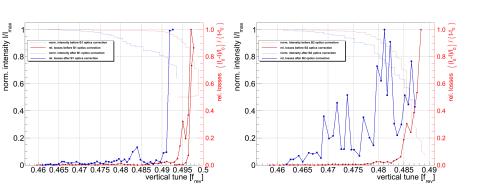












- Improved optics stability at injection in 2011.
- Optics measurement and correction near half integer has been demonstrated.
- Iteration would be needed to further decrease the  $\beta$ -beat.
- Measurements of the Montague function, amplitude detuning and non-linear chromaticity measurements should be conducted to understand the stop band.