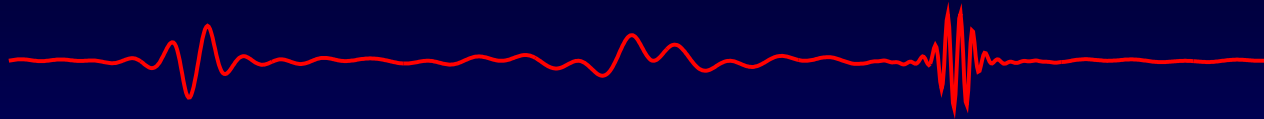


LHC beta-beating status/news



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Thanks to: I. Agapov, F. Schmidt and J. Wenninger

April 2008

First test in the CCC

- Reading YASP output working
- FT and orbit analysis working
- Connection to on-line model working
- Connection to LSA server not tested
- Technical details (software) to be fixed...

Plans/news

- Correction in SPS using orbit bumps at sextupoles working in simulation.
- 1st SPS exp towards beginning of June
- SVD module to measure phases and BPM noise (better performance?).
- Coupling measurement of global and local resonance terms: f_{1010} , f_{1001} and χ_{1001} .
- Next test in CCC in one month.
- Glenn's Master's thesis defense for August 28th

Observables independencies?

| Observable | calibration | tilt | model |
|------------------------|-------------|------|-------|
| $\phi_{x,y}$ | ● | ● | ● |
| $D_x / \sqrt{\beta_x}$ | ● | ● | ● |
| $\beta_{x,y}$ | ● | ● | ● |
| $\alpha_{x,y}$ | ● | ● | ● |
| $D_{x,y}$ | ● | ● | ● |
| f_{1010}, f_{1001} | ● | ● | ● |
| χ_{1001} | ● | ● | ● |