Dratf proposal:

« Intensity dependent effects at ATF2 »

ATF2 collaboration

- **Motivation:** clear statement about the importance of the intensity dependence effects and global mitigations strategies on ATF2 and implications for ILC and CLIC
- **Proposal of Organizational aspects** :
  - **Chapters**: responsible of collecting the mterial and contributions and writing the chapter
  - **Reviewers:** some reviewers will be needed
- **Timeline:**
  - First draft end September 2018
  - First revision in November ATF2 Collab meeting 20-22 Nov 2018

Contents

Contents

Contents

Contents

- 4. **Global mitigation strategies** (P.Korisko/A.Latina)
- 4.1 Tuning procedure
  - 4.1.1 BPM calibration
  - 4.1.2 Orbit-based correction (including DFS, and WFS)
  - 4.1.3 (WFS could be applied with closed collimator)
  - 4.1.4 Wakefield knobs (?)
  - 4.1.5 Linear knobs
  - 4.1.6 Non-linear knobs
- 4.2 Experimental verifications
  - 4.2.1 Check beam orbit robustness
  - 4.2.2 Check beam size

Contents

- **5 Extrapolation to ILC and CLIC (A.Latina/A.Faus-Golfe)**
  - 5.1 Identification of relevant wakefield sources at ILC / CLIC (BPMs,collimators, resistive sources)
  - 5.2 Calculation of impacts
  - 5.3 Mitigation strategies
  - 5.4 Estimate tolerances (vs. luminosity loss)

Help is welcome!

ATF2 collaboration