

Update on Optics Web Pages

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Existing web site(s)

- <http://cern.ch/lhcoptics>
- Based on v6.500 optics. However:
 - LHC already has run with v6.503, ATS_6503;
 - Other layout options are foreseen or under study but are of interested outside the section (SLHCV3.1b, HLLHCV1.0,...)
- Few broken links, interactive viewers not working.
- <http://cern.ch/lhc-optics>: available to provide quick links to /afs/cern.ch/eng/lhc/optics .

Update ideas

- Provide layout models and optics configurations that
 - have been used in the machine;
 - are studied outside the section.
- Keep same the same web site structure:
 - Scenario(e.g. pprun1)/Conf.(e.g. inj)/Selection (e.g. ir5)/data(e.g. twiss table)
- For each case provide:
 - basic info in the web page;
 - madx sample jobs;
 - pre-computed twiss and aperture tables (tfs, csv);
 - optics, crossing angle and aperture 2D static plots.
- If a scenario involve a squeeze, provide also plots and tables of the strengths.
- Provide also (under discussion with John):
 - Windows friendly madx jobs;
 - Outside cern- friendly copy of the optics repository for John's Mathematica tools;
 - Excel files with macros;
 - 2D and 3D dynamic plots by using John's Mathematica tools.

Demo

- <http://cern.ch/rdemaria/www>
- For illustration only of the main pages (not complete, not polished at the moment).
- Can be generated by one configuration plain text file and by a script in lxplus from an account on the access right.
- The web site page, plots and tables could be placed in:
`/afs/cern.ch/eng/lhc/optics/www`
- but not enough disk space at the moment.

Comments and suggestions welcome...