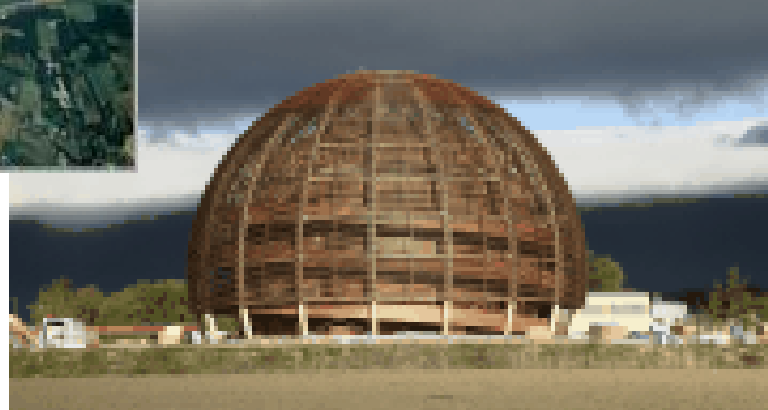
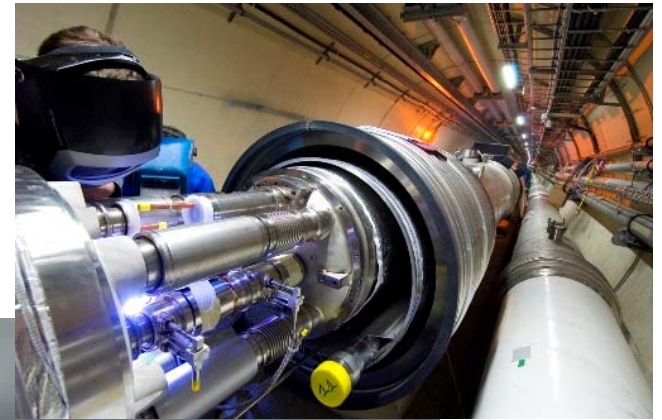
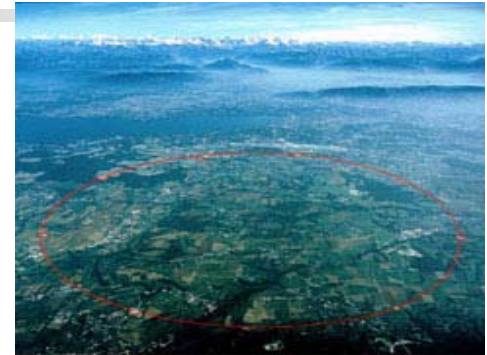


Accelerator Optics News

Olav Berrig 26 November 2007



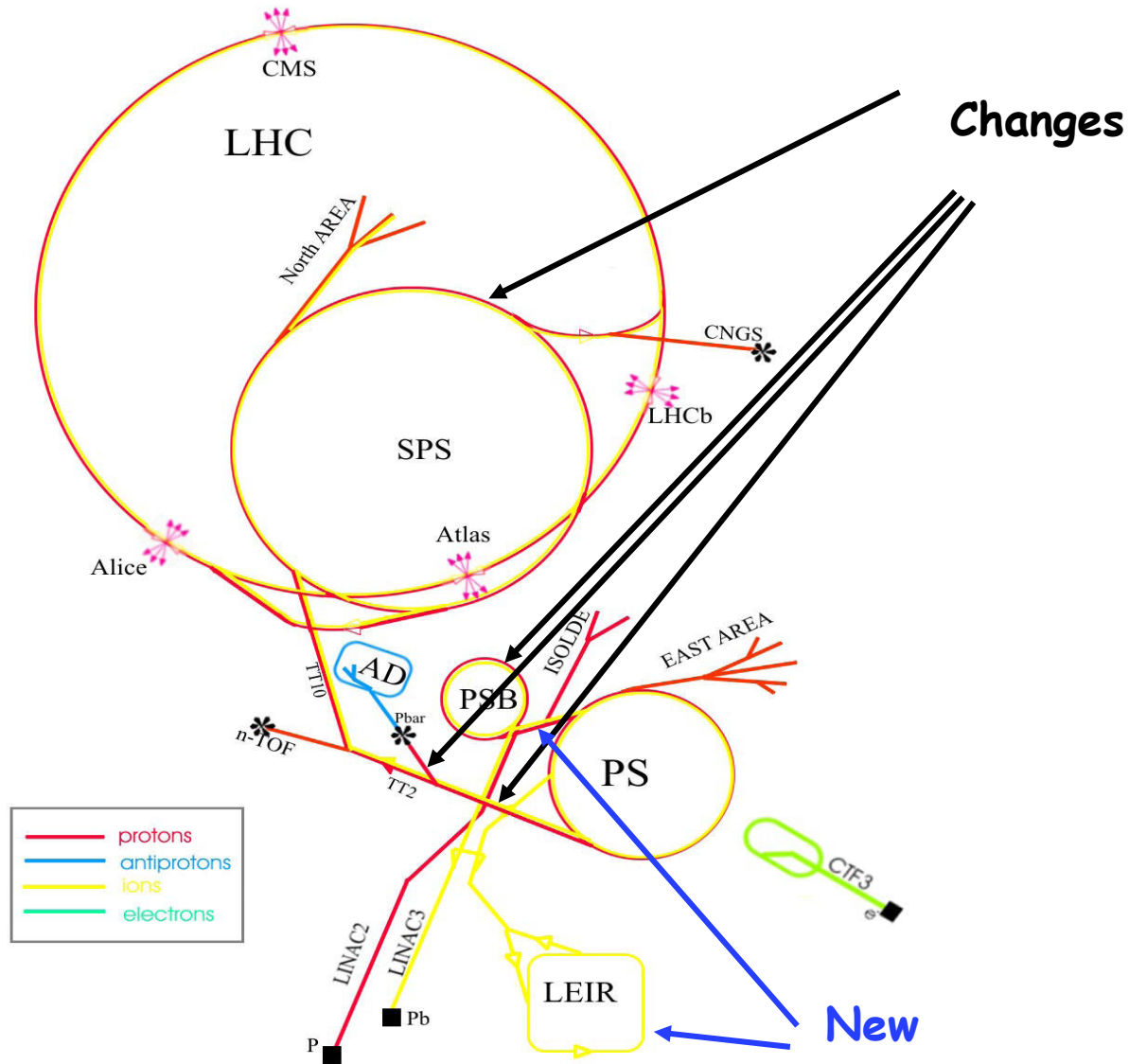
Topics



1. GENERAL STRUCTURE OF THE SITE
 - <http://cern-accelerators-optics.web.cern.ch/cern-accelerators-optics/>
2. CHANGES IN OPTICS - what's new in operation -> new optics
3. NEW IN OPTICS: SPS, PSB-PS transferline, LEIR
4. MISSING OPTICS? AD, LINAC3-LEIR, LEIR-PS transferline

NEWS and CHANGES in OPTICS

ACCELERATOR CHAIN



CHANGES

SPS:

1. The layout of the files was radically changed, in order to have the same layout as the other accelerators.
2. No more Q-Split since WEST extraction cancelled.
3. LSS5 - removal of MDHW.51797 and MDHW.517979
4. New sextupole strengths

PSB:

Orbit correction included. (Still to be finalized)
H⁻ study (B.Goddard)

TT2-TT10 transferline:

1. New optics for IONS (M.Martini & E.Benedetto)
2. New optics for LHC protons (E.Benedetto & G.Arduini)
3. QKE58 removed in the PS. CT optics modified (E.Benedetto & S.Gilardoni)

AD:

New optics for FTA line. (QKE58 removed in the PS)

NEW optics models

PSB-PS Transferline:

Combines the 4 PSB rings into one line

LEIR:

Low Energy Ion Ring. Pb^{54+} ions.

Two types of optics:

1. Basic optics - No electron cooler
2. Optics with electron cooler

OPTICS missing?

AD:

Anti-Proton De-accelerator.

Electron Cooler makes optics complicated.

MAD8 never gave correct values for dispersion - will MADX?

(Probably only a question of definition of Dispersion)

LEIR-PS transferline.

PS:

PFKs for 5 current ctrl. PFKs =MAP(PFW, magnet)

New file for MTE.

Separate .seq file into .ele - and .seq files

Special .seq file for OPERATION (S.Gilardoni, R.Steerenberg)

How do I check these models ?