



Contribution ID: 56

Type: **not specified**

Simulating radiation damage effects in LHC collimators (code development status)

Wednesday, 5 September 2007 10:35 (15 minutes)

The current status of the code development for simulating the structural damage of the graphite jaws of the LHC collimators produced by 7 TeV protons is presented. The technique, which is being developed in the framework

of the Monte Carlo code FLUKA, combined with the results of experimental tests of carbon-carbon composite materials in radiation hard environment will be capable of evaluating lifetime of the collimation system.

Co-authors: ASSMANN Ralph (CERN), BRAUN Hans (CERN), FERRARI Alfredo (CERN), GILARDONI Simone (CERN),

JOWETT John (CERN), VLACHOUDIS Vasilis (CERN)

Primary author: SMIRNOV, George (CERN)

Co-authors: FERRARI, Alfredo (CERN); BRAUN, Hans (CERN); JOWETT, John (CERN); ASSMANN, Ralph (CERN); GILARDONI, Simone (CERN); VLACHOUDIS, Vasilis (CERN)

Presenter: SMIRNOV, George (CERN)

Session Classification: Session 5: Codes and simulations results

Track Classification: Studies of radiation effects on graphite collimator materials