



Contribution ID: 102

Type: Poster

Radiation Damages and Characterization in the SOLEIL Storage Ring Tunnel

Wednesday, October 18, 2017 4:00 PM (1h 30m)

After six years of operation, equipment located close to some vacuum chambers of the SOLEIL storage ring started to show unexpected damages due to radiation. It has been pointed out that, around the so called “quadrupole” vacuum chambers that intercept upstream dipole synchrotron radiation, X-rays are emitted. Their energy is too high to be significantly attenuated by the 3mm aluminum of which the vacuum chamber is made. Diagnostics and means used to understand and characterize this radiation are presented in this poster.

Primary author: HUBERT, Nicolas (Synchrotron SOLEIL)

Co-authors: DESJARDINS, Kevin (Synchrotron SOLEIL); HERBEAUX, Christian (Synchrotron SOLEIL); MARTEAU, Fabrice (Synchrotron SOLEIL); LAMARRE, Jean-Francois (Synchrotron SOLEIL); Dr NADOLSKI, Laurent (Synchrotron SOLEIL)

Presenter: HUBERT, Nicolas (Synchrotron SOLEIL)

Session Classification: 11- Poster Session

Track Classification: High Intensity Accelerator Reliability