Contribution ID: 127 Type: not specified

Speed Poster: CW Laser Based Phase Reference Distribution for Particle Accelerators

Thursday 16 July 2015 15:57 (3 minutes)

We present a cost-effective solution for the synchronization of RF signal sources separated by tens of kilometers with the femtosecond accuracy. The system is comprised of an optical transmitter connected via single mode fibers to remote receivers. The transmitter is a CW laser intensity modulated by the RF reference oscillator.

Primary author: Mr JABLONSKI, Szymon (Warsaw University of Technology)

Co-author: Dr SCHLARB, Holger (DESY)

Presenter: Mr JABLONSKI, Szymon (Warsaw University of Technology)

Session Classification: Session 4 | Stability, Controls & Synchronization

Track Classification: Session 4 | Stability, Controls & Synchronization