



Contribution ID : 1

Type : **not specified**

CERN collaboration projects

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Summary

Potential Collaborations:

- New LHC B/B BPM acquisition system : 4 GS/s sampling for bunch signal integration; RF front-end, timing
- High bandwidth/sampling rate digitisers with 10GHz bandwidth, 20GSa/s, digital signal processing and data reduction in FPGA, large buffer memory and linux based platform. The main aim is HeadTail monitoring or longitudinal tomography in LHC : We proposed a partnership with Itech on the subject with one of the new Marie curie network that was submitted by Carsten in January- The network is called O-RTI)
- Quadrupolar pick-up measurement (Marek is already following this with GSI, but there is at the moment an increasing demand to provide such device in PS-SPS and LHC, but I do not think that we have a formal collaboration on the subject)
- X-ray Synchrotron radiation imaging technique in the framework of HL-LHC or FCC with possibly synergy with the light source community.
- digital cameras
- radiation hard cameras vidicon replacement
- Gas jet wire scanner/Gas sheet fluorescence monitor
- E-lens
- fibre BLMS for CLIC & FCC

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