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G4beamline is open source and freely available. MICE has structured its code into a Map-Reduce framework to enable better parallelization whilst also introducing unit, functional, and integration tests to ensure code reliability and correctness.

Nigel Buttimore : Trinity Research

FiDeL is primarily a parametric model of the transfer function of the main field integrals generated by the series of magnets in the LHC powering circuits, from main optical elements to high-order harmonic correctors, both superconducting and normal-conducting magnets.

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The second involves the design of a TAPE Tool for Automated Procedure Execution sequence file that specifies and implements all testing and control logic. Weidemann SLAC, Menlo Park, California The LCLS project at SLAC requires 40 undulators be tuned, fiducialized, and a final data set taken. The low α mode is also called 'isochronous' operation, it is used for short bunch operation, where intense signals of coherent sub-THz radiation are produced.

Polarised Antiproton Beams

However, by introducing an extra layer of nonlinear ferroelectric which has a dielectric constant sensitive to temperature and DC voltage, the frequency of a DLA structure can be tuned on the fly by controlling the temperature or DC bias. This new version includes some features implemented in 2006 on the LCLS gun such as racetrack couplers, increased mode separation and elliptical irises. Kobayashi KEK, Ibaraki The J-PARC accelerator comprises a 400 MeV linac, a 3-GeV Rapid Cycling Synchrotron RCS and a Main Ring MR.

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