

Cdf Track Reconstruction Duke University

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Cdf Track Reconstruction Duke University

C. Hays, Duke University Integrate all tracker information into a reconstructed track collection Accurately measure fiducial charged particles' momentum, trajectory, origin, charge within CPU constraints Correct hittrack association crucial: maintain gaussian parameter resolutions reduce track duplication prevent biases

CDF Track Reconstruction - Duke University

TheCentralOuterTracker(COT)attheColliderDetectoratFermilab(CDF)isusedtoreconstructchargedparticles in the central rapidity region. The silicon tracker is used to improve the central track measurement and to reconstruct charged particles in the forward rapidity region.

Inside-out tracking at CDF - Duke University

CDF (Run 1 & Run 2, starting 2000) and DØ (in Run 2) using magnetic tracker Tracker alignment and calibration are critical for ensuring tracker linearity Mechanical alignment of O(50m) provides good starting point In-situ alignment of O(5m) necessary Track alignment using electron charge dependence of E CAL / ptrack used by CDF in Run 1

W Mass Measurements at the Tevatron and ... - Duke University

Duke University CTEQ Summer School Peking University, Beijing July 16, 2014. ... lepton track direction. Quadrant of Collider Detector at Fermilab (CDF) ... CDF Particle Tracking Chamber Reconstruction of particle trajectories, calibration to $-2 \mu\text{m}$ accuracy: A. Kotwal, H. Gerberich and C. Hays, NIM A506, 110 (2003) ...

Ashutosh Kotwal Duke University

Reconstructive Urology and Genitourinary Cancer Survivorship Fellowship This fellowship enables the learner to become proficient in the evaluation and management of male incontinence, urethral strictures, and trauma reconstruction, as well as all morbidities suffered by patients who have undergone treatment for urologic and pelvic malignancies.

Reconstructive Urology and Genitourinary ... - Duke Surgery

at CDF Mark Kruse Duke University ... Probability per track that a hadron yields a trigger muon: Normalize this rate from MC to the measured bb crosssection Predict 57000 ghost events from DIF (recall total ghost sample is 154000 ± 5000) ... Kinematic acceptance times reconstruction ...

Study of MultimMuon Events at CDF

The European Physical Journal C Publication Venue For $\pm \leftrightarrow \pm$

The European Physical Journal C - Duke University

Duke University For the CDF Collaboration Joint Theoretical-Experimental Physics Seminar Fermilab, 5 January 2007. ... Reconstruction of pTn sensitive to hadronic response and multiple interactions pT(I) fit: ... loose lepton track and muon stub / calorimeter cluster

The First Run II Measurement of the W ... - Duke University

The faculty are drawn from 5 departments, Radiology, Radiation Oncology, Radiation Safety, Biomedical Engineering, and Physics. In addition, each faculty chooses to affiliate with one or more of the program's four tracks. Each track is shown below with some representative topics of research highlighting just some of the strengths of our program.

Faculty & Research | Duke Med Phys

Duke University School of Medicine Clinical and Research Interests Broadly, I am interested in combining disparate skillsets in clinical surgery, materials science, molecular biology, and device engineering to tackle problems germane to wound healing and reconstruction.

Daniel Joh | Duke Department of Surgery

Summer research on CDF and CMS with David Stuart, Joel Goldstein, and Joseph Incandela. CDF research focused on the silicon tracker: performed noise identification and mitigation at a test stand...

Alexander Himmel - Postdoc - Duke University | LinkedIn

the sparse signals. We will exploit the learned dependencies during signal reconstruction and enhance the reconstruction performance. Deliverable: 1) Many submissions to statistical signal processing conferences or TSP journal; 2) Code and benchmarks used in the experiment. Proposed budget: \$50K/year for two years.

2019 - Duke University

Training Tomorrow's Leaders Duke offers a 6-year integrated residency training program to prepare physicians to become tomorrow's leaders in plastic surgery. Residents in the Duke Plastic and Reconstructive Surgery Residency benefit from the breadth of experience provided by faculty in the Division of Plastic, Maxillofacial, and Oral Surgery and their collaborations with other

Program Structure | Duke Department of Surgery

Nuclear Instruments and Methods in Physics Research Section A: Accelerators, Spectrometers, Detectors and Associated Equipment

Nuclear Instruments and Methods in ... - Duke University

Professor Goshaw current research is focused on the study of Nature's most massive particles, the W and Z bosons (carriers of the weak force) and the top quark (discovered in 1994). These studies have been carried out using 1.96 TeV proton-antiproton collisions provided by Fermilab's Tevatron, and analyzed using the CDF detector.

Alfred T. Goshaw | Scholars@Duke - Duke University

Physical Review D Publication Venue For

Physical Review D | Scholars@Duke - Duke University

School of Physics & Astronomy - 116 Church Street S.E., Minneapolis, MN 55455 Phone: 612-624-7375 Fax: 612-624-4578

Dan Cronin-Hennessy - Physics at Minnesota

The successful implementation of digital tomosynthesis (DTS) for on-board image guided radiation therapy (IGRT) requires fast DTS image reconstruction. Both target and reference DTS image sets are ...

Accelerating reconstruction of reference digital ...

Hardware-based track reconstruction in the CMS and ATLAS trigger systems for the high-luminosity upgrade of the LHC (HL-LHC) will provide unique capabilities. In this review, we present an overview of earlier track trigger systems at hadron colliders, in particular for the Tevatron CDF and DØ experiments. We discuss the plans of the CMS and ATLAS experiments to implement hardware-based track ...

Tracking Triggers for the HL-LHC | Annual Review of ...

The prediction of mosquito abundance is of central interest in addressing mosquito population dynamics and in forecasting the associated emerging and re-emerging diseases. However, little work has fo...