



Particle Identification in the ATLAS Transition Radiation Tracker

By Manara, Andrea

Book Condition: New. Publisher/Verlag: VDM Verlag Dr. Müller | The development of a novel technique: from model conception to Monte Carlo simulations and experimental verifications | The ATLAS experiment is currently investigating origin of mass, extra dimensions of space, unification of fundamental forces and evidence for dark matter candidates in the Universe. The Transition Radiation Tracker (TRT), in the ATLAS inner detector, is a straw drift-tube tube detector designed to be a powerful tracking device and to provide electron identification via transition-radiation detection. This book describes the development of a novel technique for particle identification: the Time-Over-Threshold which helps discriminating particles by measuring the width of the discriminated signal above a given threshold set in the front-end electronics. Today, ten years after this research, this technique is proving quite successful in ATLAS, which just started data taking at the Large Hadron Collider in CERN. This work should interest experimental physicists; the descriptive approach make it suitable also to a wider audience. The step-by-step approach, from model conception to Monte Carlo simulations and experimental verification, and the narrative style may appeal to young people in their approach to scientific experiments. | Format: Paperback | Language/Sprache: english | 172 pp.



READ ONLINE
[3.08 MB]

Reviews

This pdf is indeed gripping and interesting. It is actually rally exciting throgh looking at time period. I am just very happy to explain how here is the finest book i have got read through during my very own existence and might be he best publication for ever.

-- **Alexis Will**

The publication is fantastic and great. It can be rally exciting throgh reading period of time. I am just very happy to inform you that this is the greatest publication i actually have read in my very own daily life and could be he very best ebook for at any time.

-- **Prof. Alvis Wuckert**

Other Kindle Books



Depression: Cognitive Behaviour Therapy with Children and Young People (Paperback)

Taylor Francis Ltd, United Kingdom, 2009. Paperback. Book Condition: New. 242 x 174 mm. Language: English . Brand New Book. In recent years there has been an increase in research into childhood depression, and it is now recognised that depression can severely...



DK Readers L1: Jobs People Do: A Day in the Life of a Firefighter

DK Publishing. Paperback / softback. Book Condition: new. BRAND NEW, DK Readers L1: Jobs People Do: A Day in the Life of a Firefighter, Linda Hayward, DK Publishing, This Level 1 book is appropriate for children who are just beginning to read....



Who am I in the Lives of Children? An Introduction to Early Childhood Education (Paperback)

Pearson Education (US), United States, 2015. Paperback. Book Condition: New. 10th Revised edition. 254 x 201 mm. Language: English . Brand New Book. Note: This is the bound book only and does not include access to the Enhanced Pearson eText. To order...



DK Readers L1: Jobs People Do: A Day in the Life of a Teacher (Paperback)

DK Publishing (Dorling Kindersley), United States, 2001. Paperback. Book Condition: New. American.. 224 x 150 mm. Language: English . Brand New Book. This Level 1 book is appropriate for children who are just beginning to read. Ms. Hill brings 28 fish to...



California Version of Who Am I in the Lives of Children? an Introduction to Early Childhood Education, Enhanced Pearson Etext with Loose-Leaf Version -- Access Card Package

Pearson, United States, 2015. Loose-leaf. Book Condition: New. 10th. 249 x 201 mm. Language: English . Brand New Book. NOTE: Used books, rentals, and purchases made outside of Pearson If purchasing or renting from companies other than Pearson, the access codes for...



Who Am I in the Lives of Children? an Introduction to Early Childhood Education, Enhanced Pearson Etext with Loose-Leaf Version -- Access Card Package

Pearson, United States, 2015. Book. Book Condition: New. 10th. 250 x 189 mm. Language: English . Brand New Book. NOTE: Used books, rentals, and purchases made outside of Pearson If purchasing or renting from companies other than Pearson, the access codes for...