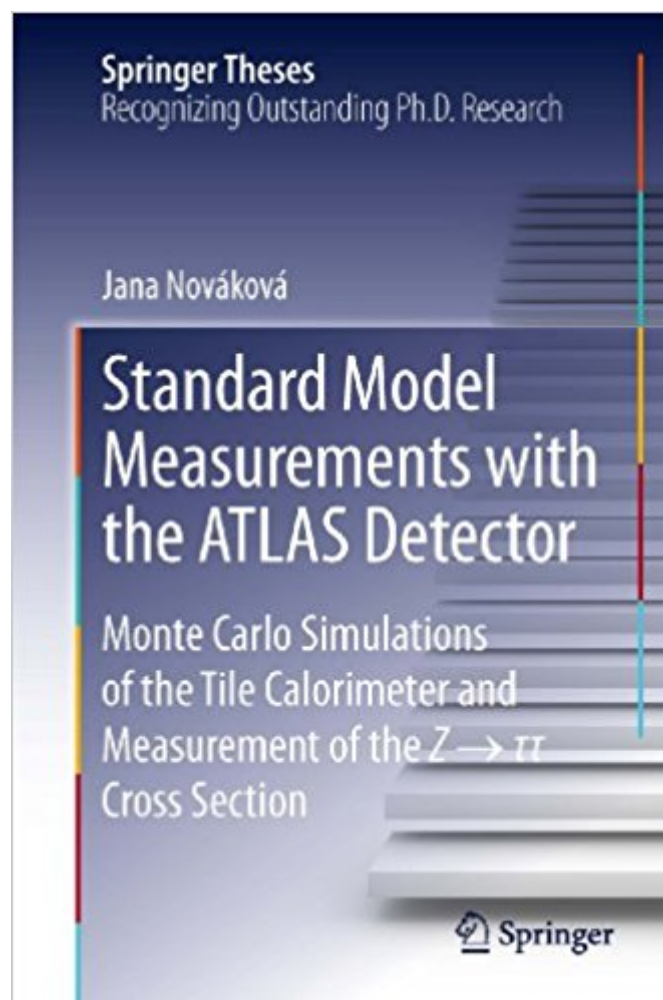


The book was found

Standard Model Measurements With The ATLAS Detector: Monte Carlo Simulations Of The Tile Calorimeter And Measurement Of The $Z \rightarrow \tau^+ \tau^-$ Cross Section (Springer Theses)





Synopsis

This thesis deals with two main procedures performed with the ATLAS detector at the Large Hadron Collider (LHC). The noise description in the hadronic calorimeter TileCal represents a very valuable technical job. The second part presents a fruitful physics analysis - the cross section measurement of the process $p+p \rightarrow Z^0 \rightarrow \tau^+ \tau^- + \bar{\nu}_\tau + \nu_\tau$. The Monte Carlo simulations of the TileCal are described in the first part of the thesis, including a detailed treatment of the electronic noise and multiple interactions (so-called pile-up). An accurate description of both is crucial for the reconstruction of e.g. jets or hadronic tau-jets. The second part reports a Standard Model measurement of the $Z^0 \rightarrow \tau^+ \tau^- + \bar{\nu}_\tau + \nu_\tau$ process with the emphasis on the final state with an electron and a hadronically decaying tau-lepton. The $Z^0 \rightarrow \tau^+ \tau^- + \bar{\nu}_\tau + \nu_\tau$ channel forms the dominant background in the search for Higgs bosons decaying into tau lepton pairs, and thus the good understanding achieved here can facilitate more sensitive Higgs detection.

Book Information

File Size: 2032 KB

Print Length: 91 pages

Publisher: Springer; 2014 edition (August 30, 2013)

Publication Date: August 30, 2013

Sold by: Digital Services LLC

Language: English

ASIN: B00EVJIYEU

Text-to-Speech: Enabled

X-Ray: Not Enabled

Word Wise: Enabled

Lending: Not Enabled

Enhanced Typesetting: Not Enabled

Best Sellers Rank: #4,558,748 Paid in Kindle Store (See Top 100 Paid in Kindle Store) #22

in Books > Travel > Europe > Monaco #191 in Kindle Store > Kindle eBooks > Nonfiction >

Science > Experiments, Instruments & Measurement > Weights & Measures #376 in Kindle Store > Kindle eBooks > Nonfiction > Science > Physics > Waves & Wave Mechanics

[Download to continue reading...](#)

Standard Model Measurements with the ATLAS Detector: Monte Carlo Simulations of the Tile Calorimeter and Measurement of the $Z \rightarrow \tau^+ \tau^- + \bar{\nu}_\tau + \nu_\tau$ Cross Section (Springer Theses) Cross Stitch: Learn

Cross Stitch FAST! - Learn the Basics of Cross Stitch In No Time (Cross Stitch, Cross Stitch Course, Cross Stitch Development, Cross Stitch Books, Cross Stitch for Beginners) How to Lay Tile Like a Pro: The Best How To Tile a Floor Step-By-Step DIY Guide for Beginners Laying a Tile Floor (with Pictures) Metal Detecting: Without A Detector: How To Find Treasure When You Can't Use Your Metal Detector (Gold, Coins & Jewelry) Cross Stitch: Learn How to Cross Stitch Simple and Easy Pictures, Patterns, and Shapes - CROSS STITCH (Cross-Stitch, Needlework, Needlepoint, Embroidary, ... Hobbies and Home, Cross-Stitching, Crochet) Computational Materials Science: From Ab Initio to Monte Carlo Methods (Springer Series in Solid-State Sciences) The Cross-Entropy Method: A Unified Approach to Combinatorial Optimization, Monte-Carlo Simulation and Machine Learning (Information Science and Statistics) Tile Your World: John Bridge's New Tile Setting Book Pantry Stuffers Rehydration Calculations Made Easy: U.S. Measurements / Pantry Stuffers Rehydration Calculations Made Easy: Metric Measurements Guide To The Riviera From Hyères To Viareggio. With Map Of The Riviera And Street Plans Of Hyères, Cannes, Nice, Monaco And Monte Carlo, Menton, San Remo And Genoa. Numerous Illustrations Monte Carlo Modeling for Electron Microscopy and Microanalysis (Oxford Series in Optical and Imaging Sciences) Monte Carlo Pocket Guide, 4th: Compact and practical pocket guides for sun seekers and city breakers (Thomas Cook Pocket Guides) Fair Italy, the Riviera and Monte Carlo: Comprising a Tour Through North and South Italy an The sealed book of roulette and trente-et-quarante: Being a guide to the tables at Monte Carlo, together with simple descriptions of several unique ... with Baccarat, chemin-de-fer and la boule Irina Baronova and the Ballets Russes de Monte Carlo Berlitz: Nice, Cannes and Monte Carlo Pocket Guide (Berlitz Pocket Guides) Monte Carlo anecdotes and systems of play Luxury Yachts in the Harbor and View of Monte Carlo Monaco Journal: 150 Page Lined Notebook/Diary From Deauville to Monte Carlo: Via Le Touquet, Biarritz, Vichy, Aix-les-Bains and Cannes, The Money Spinner: Monte Carlo and Its Fabled Casino

[Contact Us](#)

[DMCA](#)

[Privacy](#)

[FAQ & Help](#)