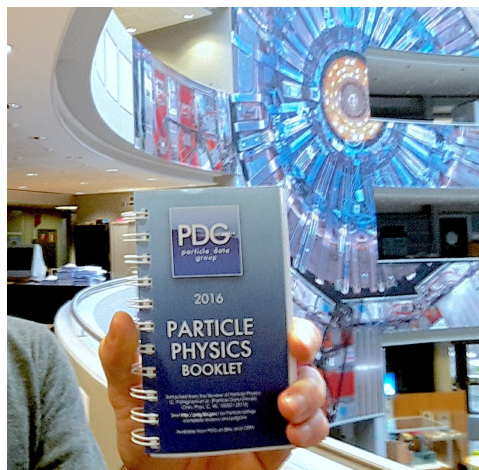




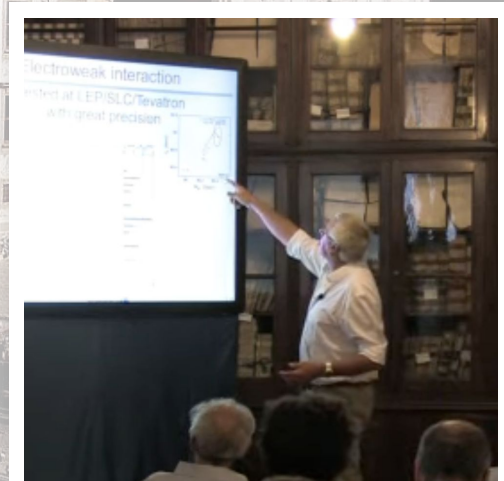
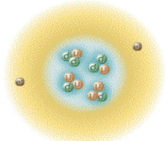
The human side of the Lagrangian *Adventures in the Gigi Field*



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Historical Introduction

Particle Physics address the question :
What is matter made of ?







TESI DI PERFEZIONAMENTO

Towards a simultaneous measurement of W boson mass and production properties with the CMS detector

CANDIDATO
Valerio Bertacchi

RELATORE
Prof. Luigi Rolandi

ANNO ACCADEMICO 2020-2021

Sviluppo di un nuovo trigger con identificazione di quark-b
il canale $H(b\bar{b})Z(\nu\bar{\nu})$ nell'esperimento CMS a LHC

Candidate:
Silvio Donato

Relatori:
Prof. Luigi Rolandi
Dott. Andrea Rizzi

PhD Thesis

Search for resonances decaying to $H(b\bar{b})$ pairs with the CMS experiment at the LHC

CANDIDATE
Caterina Vernieri

SUPERVISOR
Prof. Luigi Rolandi
ADVISOR
Dr. Andrea Rizzi

Quark and Gluon Jet Separation and QCD studies

RELATORE:
Prof. Luigi Rolandi

CANDIDATO:
Andrea Carlo Marini

ANNO ACCADEMICO 2010/2011

DIPARTIMENTO DI FISICA
CORSO DI LAUREA MAGISTRALE IN FISICA

Differential measurement of $b\bar{b}$ pair production with the CMS experiment at LHC

CANDIDATO:
Giulio Mandorli

RELATORI:
Prof. Luigi Rolandi
Prof. Andrea Rizzi

ANNO ACCADEMICO 2015/2016

First measurement of vector boson polarization at LHC

CANDIDATO:
Marco Peruzzi

RELATORE:
Prof. Luigi Rolandi

ANNO ACCADEMICO 2010/2011

DIPARTIMENTO DI FISICA "E. FERMI"
Corso di Laurea Magistrale in Fisica

Hadronic recoil in the W boson production at LHC for a W mass measurement with the CMS experiment

Candidato:
Olmo Cerri

Relatore:
prof. Luigi Rolandi

ANNO ACCADEMICO 2016/2017

TESI DI LAUREA MAGISTRALE IN FISICA

Definition and calibration of the hadronic recoil in view of the measurement of the W boson mass with the CMS experiment

CANDIDATO
Nicolò Foppiani

RELATORE
Prof. Luigi Rolandi

Calibration in the CMS Barrel Yoke

Tesi di Laurea Specialistica

Candidato:

Lorenzo BIANCHINI

Relatore:

Prof. Luigi ROLANDI

DIPARTIMENTO DI FISICA "E. FERMI"

TESI DI LAUREA MAGISTRALE IN FISICA

Validation of the muon momentum resolution in view of the W boson mass measurement with the CMS experiment

Candidato:
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Relatore:
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Thesis type	Tesi di laurea magistrale
Author	MARINI, ANDREA CARLO
URN	etd-07192011-020840
Thesis title	Quark and Gluon Jet Separation and QCD Studies at CMS
Department	SCIENZE MATEMATICHE, FISICHE E NATURALI
Course of study	FISICA
Supervisors	relatore Prof. Rolandi, Luigi

RESONANCES IN SEMILEPTONIC ZH FINAL STATE AT CMS

Master thesis of:
Andrea Mauri

Supervisor:
Prof. Luigi Rolandi

Internal supervisor:
Prof. Giovanni Baglioni

Candidate:
Andrea Mauri

3 February 2014
Academic year 2012-2013



CMS Experiment at the LHC, CERN

Data recorded: 2011-Mar-25 08:00:10 - 2011-Mar-25 08:00:10 CEST

Run / Event: 165633 / 39











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