

Luca Fiorini

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PERSONAL DETAILS

Place and Date of birth:

La Spezia, 27/07/1977

Nationality:

Italian

Marital Status:

Single

Militar Service:

Exempt for academic records.

EDUCATION

January 2002- December 2004 *Scuola Normale Superiore, Pisa*

PhD in Physics

Thesis of title “New precise measurements of the ratio of leptonic decays of K^+ and K^- mesons” to be discussed in March 2005

Approved Exams:

Modern Cosmology

Quantum Information Theory

Theoretical Physics

September 1996- September 2001 *Universita' di Pisa*

Laurea in Fisica

Main Subject: “Nuclear and Particle Physics”

Final Mark:

110/110 with distinction.

Diploma Thesis:

“Effetti Sistemati Legati alla Misura di $\text{Re}(\epsilon'/\epsilon)$ nell' esperimento NA48”,
based on the research work in collaboration with Istituto Nazionale di Fisica Nucleare (INFN) of Pisa e of the European Organization for Nuclear Research (CERN) of Geneva.

September 1998- June 1999 *Universite' Paris XI (Orsay)*

One Academic Year - Erasmus Interchange Programme

September 1991 – July 1996 Liceo Scientifico A. Pacinotti of La Spezia

Diploma with final mark: 56/60

PUBLICATIONS

- 1) **MEASUREMENT OF THE BRANCHING RATIO OF THE DECAY $K(L) \rightarrow \pi^+ \pi^- \nu$ AND EXTRACTION OF THE CKM PARAMETER $|V(US)|$**
By NA48 Collaboration ([A. Lai et al.](#)). CERN-PH-EP-2004-47, CERN-PH-EP-2004-047, Oct 2004. 18pp.
Published in **Phys.Lett.B602:41-51,2004**
e-Print Archive: **hep-ex/0410059**
- 2) **OBSERVATION OF THE RARE DECAY $K(S) \rightarrow \pi^0 \mu^+ \mu^-$.**
By NA48/1 Collaboration ([J.R. Batley et al.](#)). CERN-PH-EP-2004-025, Jun 2004. 19pp.
Published in **Phys.Lett.B599:197-211,2004**
e-Print Archive: **hep-ex/0409011**
- 3) **SEARCH FOR CP VIOLATION IN $K^0 \rightarrow 3 \pi^0$ DECAYS.**
By NA48 Collaboration ([A. Lai et al.](#)). Aug 2004. 18pp.
Submitted to Phys.Lett.B
e-Print Archive: **hep-ex/0408053**
- 4) **MEASUREMENT OF THE BRANCHING RATIO AND FORM-FACTORS FOR THE DECAY $K(L) \rightarrow \pi^+ \pi^- \pi^0 \nu$ (ANTI- ν).**
By NA48 Collaboration ([J.R. Batley et al.](#)). CERN-PH-EP-2004-013, Apr 2004. 12pp.
Published in **Phys.Lett.B595:75-85,2004**
e-Print Archive: **hep-ex/0405010**
- 5) **OBSERVATION OF THE RARE DECAY $K(S) \rightarrow \pi^0 e^+ e^-$.**
By NA48/1 Collaboration ([J.R. Batley et al.](#)). CERN-EP-2003-062, Sep 2003. 13pp.
Published in **Phys.Lett.B576:43-54,2003**
e-Print Archive: **hep-ex/0309075**
- 6) **FIRST OBSERVATION OF THE $K(S) \rightarrow \pi^0 \gamma \gamma$ DECAY.**
By NA48 Collaboration ([A. Lai et al.](#)). CERN-EP-2003-052, Aug 2003. 10pp.
Published in **Phys.Lett.B578:276-284,2004**
e-Print Archive: **hep-ex/0309022**
- 7) **PRECISE MEASUREMENTS OF THE $K(S) \rightarrow \gamma \gamma$ AND $K(L) \rightarrow \gamma \gamma$ DECAY RATES.** CERN-EP-2002-074, Oct 2002. 10pp.
Published in **Phys.Lett.B551:7-15,2003**
e-Print Archive: **hep-ex/0210053**
- 8) **A PRECISION MEASUREMENT OF DIRECT CP VIOLATION IN THE DECAY OF NEUTRAL KAONS INTO TWO PIONS.**
By NA48 Collaboration ([J.R. Batley et al.](#)). CERN-EP-2002-061, Jul 2002. 19pp.
Published in **Phys.Lett.B544:97-112,2002**
e-Print Archive: **hep-ex/0208009**

9) **NEW MEASUREMENTS OF THE ETA AND K0 MASSES.**

By NA48 Collaboration (A. Lai *et al.*). CERN-EP-2002-025, Apr 2002. 17pp.
Published in **Phys.Lett.B533:196-206,2002**
e-Print Archive: **hep-ex/0204008**

CONGRESS PARTECIPATIONS AND PHD SCHOOLS

September 2004

National Congress of Italian Physics Society (SIF), Brescia

June 2004

Dafne 2004, Roma

February 2004

XIV Giornate di Studio sui Rivelatori, Torino

September 2003

National Congress of Italian Physics Society (SIF), Parma

Giugno 2001

Kaon 2001, Pisa

OTHER

May 2004

Intensive C++ Course

July-September 2000

CERN Summer Student

<http://webcast.cern.ch/Projects/WebLectureArchive/ssl/2000/0814/fiorini/>

POSITIONS OF RESPONSABILITY

April 2003- April 2004

CDR Responsible for NA48/2 CERN experiment

October 2002- April 2003

Exercise teacher of Fisica I lectures for Physics undergraduate students

January 2001-December 2004

Amministratore of the PC Farm of Pisa NA48 group.

<http://www.pi.infn.it/na48/pcfarm/main.html>

LANGUAGES

English: Fluent

TOEFL score of 598 obtained in August 1997 at the Bentley College of Boston.

French: Fluent

Italian: Mother tongue

Spanish: Good

IT SKILL

OS administration:

Linux (clusters and SOHO)

OS user:

Linux, Unix Digital, Solaris, Windows, DOS.

Code Writing:

C++, C, Fortran, Pascal

Script Languages:

Perl, PHP, bash, tcsh

Other:

Web Pages developer, Apache, MySQL

OTHER

Full clean Driving License

Excellent health