

Curriculum Vitae

Personal Informations

First Name: Marco
Family Name: Clemencic
Address: Via Bugella, 13
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Italy
Nationality: Italian
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Education

November 2000 – January 2004: Università degli Studi di Torino
Dottorato di Ricerca in Fisica
Subject of the thesis: “*A Measurement of the Branching Ratio of the Ξ^0 β -decay in the NA48 experiment*”

October 1993 – July 2000: Università degli Studi di Torino
Corso di Laurea in Fisica
Main subject: Particle Physics
Final mark: 110/110 cum laude
Subject of the thesis: “*Measurement of one of the Calibration Constants of the EM Calorimeter of NA48*”

September 1987 – June 1993: Liceo Scientifico G. Galilei
Diploma di Maturità Scientifica
Final mark: 60/60

Ph.D. Thesis

The Ξ^0 β -decay is the last seen between the hyperon β -decays and its study was limited by the low statistics. With NA48/1 data sample it is possible to sensibly improve the present knowledge on this decay mode. It is also important because it can shed light on the possible discrepancies between hyperon and meson semileptonic decays, concerning the unitarity of the Cabibbo-Kobayashi-Maskawa mixing matrix.

To perform the measurement of the branching ratio of the Ξ^0 β -decay. I implemented the Ξ^0 decay modes in the Montecarlo. The main sources of systematic uncertainties were also found and studied.

Positions of Responsibility

Since Summer 1999, I have been working for the NA48 experiment at CERN as responsible of the Trigger Supervisor, the central decision unit of the NA48 trigger system. My duties were to make sure that the system was properly working, to implement new configurations for both Level 1 and Level 2 triggers according to the needs of the collaboration. A deep understanding of the detector

of NA48 and the inter-relations between the read-out systems and the trigger system was essential to accomplish my duties. In this context I also wrote the program that is still used to configure the look up tables of the trigger logic.

During the Winter/Spring 2001, I participated to the construction, and I was responsible for the testing and setting up of the NEW MASTER SERVICE CARD. This VME board serves Level 1 and Level 2 triggers to the newly built read out of the NA48 magnetic spectrometer.

From May 2002 to March 2003 I was responsible for the NA48/1 Central Data Recording. During the data taking, my task was to assure the proper handling of the NA48/1 data from the detector to the Level 3 software trigger and then to tape. In this period I improved the CDR software to simplify it and to make it more efficient. I wrote the Python program to port the reprocessing of the raw data from the NA48 private PC farm to the CERN LXBATC facility. I supervised the reprocess of the data collected in 2002.

Conferences

KAON2001 June 2001, Pisa (Italy)

NAPP2003 May 2003, Dubrovnik (Croatia)
invited speaker reporting on “*Recent results of NA48 on neutral kaon rare decays*”

VI Roma Tre Topical Seminar on “*Strange Mesons and the Cabibbo Angle*”
December 2003, Roma (Italy)

Relevant Skills

IT Skills

Operating Systems: **Linux**, very good with experience on many distributions
MS Windows, any version, very good
MS DOS, good
Commercial UNICES, good
OS/9, fair

Languages: **C/C++**, very good
Python, very good
shell scripting (csh, tcsh, bash), very good
FORTRAN, good
Pascal and Delphi, good
Perl, good
BASIC, good
SQL, good
HTML, good
ecma script and JavaScript, good
PHP, fair

Software packages: **LaTeX**, very good
 OpenOffice and **StarOffice**, very good
 MSOffice, very good
 ROOT, very good
 OpenPBS, good
 CERNLIB, good
 ORCAD, fair

Hardware: **PC generic hardware**, good
 Networking hardware, good
 Storage devices (tape libraries, RAID systems), fair

Languages

Mother Tongue: **Italian**

Other Languages: **English**, good
 French, poor

Personal Interests

I like to stay informed on the recent development on the IT sector, mainly for what concern both the computing and the information handling . I'm particularly interested in distributed computing and relational and object databases.

I played some sports among which I like most in-line skating and volleyball.

In the spare time I also like very much reading contemporary and classical novels and short stories.