



Designed the ALICE trigger on the Time of Flight detector

**Postdoctoral Research Fellow, University of Pisa**

Leading contributor to the (Silicon Vertex Trigger) SVT project at CDF

Worked on the SVT commissioning at Fermilab

Designed, tested, installed and commissioned the XFT fanout system of the SVT

**Guest Scientist at Fermi National Accelerator Laboratory**

Worked on the (Intermediate Silicon Layers) ISL detector project at CDF

Designed the hadronic B trigger strategy for CDF Run II

**SELECT CONFERENCE PRESENTATIONS**

*Tevatron Heavy Flavor Results on B Lifetimes and Decays and D Asymmetries*

Rencontres de Moriond EW 2014, La Thuile, Aosta, Italy, March 2014

*The Italian Summer Students Program at the Fermi National Accelerator Laboratory*

Fifth International Conference of Education, Research and Innovation, Madrid, Spain, November 2012

*Baryons and Lifetimes*

8<sup>th</sup> Flavour Physics and CP Violation Conference, Torino, Italy, May 2010

*Flavour Physics Technique at CDF and D0*

7<sup>th</sup> Flavour Physics and CP Violation Conference, Lake Placid, NY, May 2009

*D<sup>0</sup> Mixing at the Tevatron*

5<sup>th</sup> Int. Workshop on the CKM Unitarity Triangle, Rome, Italy, September 2008

*Charmless B Decays at CDF*

10<sup>th</sup> Int. Conference on B Physics at Hadron Machines, Assisi, Italy, June 2005

*B Physics at the Tevatron*

American Physical Society Meeting, Philadelphia, PA, April 2003

*All Hadronic B Decay Trigger with the CDF Silicon Vertex Tracker*

Poster presented at the 8<sup>th</sup> Int. Symposium on Heavy Flavour Physics, Southampton, UK, July 1999

**SELECT PUBLICATIONS**

D. Acosta *et al.* (CDF Collaboration), Phys. Rev. Lett. **94**, 122001 (2005)

“Measurement of Partial Widths and Search for Direct CP Violation in D<sup>0</sup> Meson Decays to K<sup>-</sup> K<sup>+</sup> and  $\pi^-\pi^+$ ”

A. Abulencia *et al.* (CDF Collaboration), Phys. Rev. Lett. **97**, 211802 (2006)

“Observation of B<sup>0</sup><sub>s</sub> → K<sup>+</sup>K<sup>-</sup> and Measurement of Branching Fractions of Charmless Two-Body Decays of B<sup>0</sup> and B<sup>0</sup><sub>s</sub> Mesons”

T. Aaltonen *et al.* (CDF Collaboration), Phys. Rev. Lett. **103**, 031801 (2009)

“Observation of New Charmless Decays of Bottom Hadrons”

A. Abulencia *et al.* (CDF Collaboration), Phys. Rev. Lett. **97**, 242003 (2006)

“Observation of B<sup>0</sup><sub>s</sub> Oscillations”

T. Aaltonen *et al.* (CDF Collaboration), Phys. Rev. D **85**, 032003 (2012)

“Measurement of the branching fraction BR( $\Lambda^0_b \rightarrow \Lambda^+_c \pi^-\pi^+$ ) at CDF”

T. Aaltonen *et al.* (CDF Collaboration), Phys. Rev. Lett. **106**, 181802 (2011)

“Measurements of Direct CP Violating Asymmetries in Charmless Decays of Strange Bottom Mesons and Bottom Hadrons”

A. Abulencia *et al.*, IEEE Trans. Nucl. Sci. **55**, 126 (2008) “The CDF II eXtremely Fast Tracker Upgrade”

A. Bhatti *et al.*, Nucl. Instr. Meth. **A598**, 331 (2009) “The CDF Level 2 Calorimetric Trigger Upgrade”

W. Ashmanskas *et al.*, Nucl. Instr. Meth. **A518**, 532 (2004) “The CDF Silicon Vertex Trigger”

A. Akindinov *et al.*, Nucl. Instr. Meth. **A602**, 372 (2009) “A Topological Trigger Based on the Time of Flight Detector for the ALICE Experiment”

A. Lanza *et al.*, “The Associative Memory Boards for the FTK Processor at ATLAS”, Proceeding of the 2013 IEEE Nuclear Science Symposium and Medical Imaging Conference and Room-Temperature Semiconductor X-Ray and Gamma-Ray Detectors, Seoul, Korea, October 2013.

## TEACHING

Teaching in several General Physics and Experimental General Physics courses at the University of Pisa

Advisor of several Master Degree Theses in Physics and Engineering on CDF data analysis, and electronics and mechanics projects for CDF, ATLAS and Mu2e

Coordinator of the University of Pisa Summer School “Summer Students at Fermilab and other US Laboratories”

Organized several internship programs in USA for Italian Physics, Astrophysics, Astronomy, Engineering and Computing Science students for a total of 200 students:

INFN-DOE Italian Summer Students program at Fermi National Accelerator Laboratory in the years 2007-today

ISSNAF-INFN internship program in the years 2010-2012

ISSNAF-INAF internship program in the year 2011

ISSNAF-ASI internship program in the years 2012-today

ISSNAF-CNI internship program at Fermilab in the years 2013-today