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Introduction

I am a young PhD student with 3 years experience in experimental particle physics(CAST Experiment), with focus on the following areas: microMEGAs detectors(hardware maintenance, data acquisition system, upgrades and analysis), vacuum systems, control systems and the mechanical movement system of the CAST magnet.

In CAST Experiment I've enhanced my knowledge of hardware and software and I am confident that my experience and skills will allow me to make meaningful contribution to physics experiments at CERN.

Being very interested in sharing knowledge about CAST and CERN to non-scientists, and possessing advanced communication skills, I was appointed as CAST contact person, and at the same time became an official CERN guide.

I highly value collaborative spirit, and am skilled in working in collaborative environment efficiently.

Education

- 2009 - ... , Ph.D. Physics, Bogazici University
- 2005 - 2008, M.S. Physics, Bogazici University
- 2000 - 2005, B.S. Physics, Koc University

Research Experience

- 2009 - ... , *PhD Research, CAST Experiment, CERN*
Search for Axions with microMEGAs detector in the CERN CAST Experiment
Supervisor: Prof. Metin Arik
- 2006 - 2008, *M.S. Thesis, Bogazici University*
Unitary Matrix Hopf Algebras and Theta-Deformed Fermion Algebra
Supervisor: Prof. Metin Arik

Publications

Search for Sub-eV Mass Solar Axions by the CERN Axion Solar Telescope with ^3He Buffer Gas
The CAST Collaboration, Phys. Rev. Lett. 107, 261302 (2011)

The new micromegas X-ray detectors in CAST
Tomás A et al, X-Ray Spectrometry 40 240-246

Performance of micromegas detectors in the CAST Experiment
S C Yildiz et al 2012 J. Phys.: Conf. Ser. 347 012029

Teaching Experience

- 2009 - 2012, *Bogazici University*, Teaching and Research Assistant
2003 - 2005 , *Koc University*, Laboratory Research Assistant
2003 , *Koc University*, Laboratory Assistant for Introductory Physics courses
2002 - 2003 , *Koc University Volunteers*, Volunteer teaching assistant for economically disadvantaged high school students.

Technical & Computing Skills

Python, C++, Linux, Labview, ROOT, Php, L^AT_EX

Schools Attended

- 2012 August, Euroscipy - European Conference for Scientists Using Python, Brussels
2011 January , ISTAPP - International School of Theory and Analysis in Particle Physics, Istanbul
2010 July , Euroscipy - European Conference for Scientists Using Python, Paris
2010 January , ISOTDAQ - International School on Trigger and Data Acquisition, Ankara

Language Skills

Turkish, *Native*

English, *Fluent*

French, *Intermediate*

Spanish, *Intermediate*

Awards and Honors

- 2012, Berkol Doğan Award - Bogazici University Physics Department
2005-2007, TUBITAK Domestic Scholarship for Masters
2005, Top Ranking Student Award - Koc University Physics Department
2000-2005, Vehbi Koc Scholarship - Koc University

Personal

Born on March 23, 1983.

Citizen of Republic of Turkey.

Other

- 2011 - ... *CAST Experiment, CERN*, Contactperson
2011 - ... *CERN*, Official CERN Guide

References

References are available upon request