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## **EDUCATION:**

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### **Doctor of Philosophy**

University of Alberta, Canada  
Department of Physics, 2006-2011  
April 20, 2011

### **Supervising Professor: Dr. Aksel Hallin**

**Dissertation:** A Combined Three-Phase Signal Extraction of the Sudbury Neutrino Observatory Data using Markov Chain Monte Carlo Technique

### **Master of Science**

University of Texas at Arlington, TX  
Department of Physics, 2000-2003  
GPA: 3.95

### **Supervising Professor: Dr. Jaehoon Yu**

**Thesis:** Simulation Studies of a New Digital Hadronic Calorimeter, Using Gas Electron Multiplier (GEM) Detector

### **Master of Science**

Quaid-e-Azam University, Pakistan  
Nuclear Engineering, 1988-1990

### **Bachelor of Engineering**

NED University of Engineering and Technology, Pakistan  
Department of Mechanical Engineering, 1982-1988

## **PUBLICATIONS and PAPERS**

### **First Measurement of $\theta_{13}$ from Delayed Neutron Capture on Hydrogen in the Double Chooz Experiment**

Hep-ex 29 August 2013

## **Direct Measurement of Backgrounds using Reactor-Off Data in Double Chooz**

Hep-ex 20 October 2012

## **Final Analysis of Solar Neutrino Data from the Sudbury Neutrino Observatory**

SNO Collaboration

<http://arxiv.org/abs/1109.0763>

## **Measurement of the $\nu_e$ and Total ${}^8\text{B}$ Solar Neutrino Fluxes with the Sudbury Neutrino Observatory Phase-III Data Set**

SNO Collaboration

Submitted to Physical Review C

## **A Monte Carlo simulation of the Sudbury Neutrino Observatory proportional counters**

SNO Collaboration

New Journal of Physics, 13 (2011) 073006

## **Low Multiplicity Burst Search at the Sudbury Neutrino Observatory.**

SNO Collaboration

Astrophys.J.728:83, 2011

arXiv:1011.5436 [hep-ex]

## **Low Energy Threshold Analysis of the Phase I and Phase II Data Sets of the Sudbury Neutrino Observatory**

SNO Collaboration

Physical Review C 81:055504, May 2010

## **Measurement of the Cosmic Ray and Neutrino-Induced Muon Flux at the Sudbury Neutrino Observatory**

SNO Collaboration

Physical Review D 80:012001, Feb 2009

## **An Independent Measurement of the Total Active B-8 Solar Neutrino Flux Using an Array of He-3 Proportional Counters at the Sudbury Neutrino Observatory.**

SNO Collaboration

Physical Review Letter 101:111301 Sep 12, 2008

## **Simulation Studies of a New Digital Hadronic Calorimeter, Using Gas Electron Multiplier (GEM) Detector**

M.S. Thesis

University of Texas at Arlington, TX

Shahnoor Habib

Updated Studies of TESLA-TDR Hadron Calorimeter Energy Resolution

[http://www-hep.uta.edu/hep\\_notes/lc/lc\\_0002.pdf](http://www-hep.uta.edu/hep_notes/lc/lc_0002.pdf)