

CSC2014 PARTICIPANTS

TEPEL Phillipp



Bergische Universität Wuppertal – Germany

I am currently working on my PhD thesis in experimental particle physics in my second year. The main topic is the measurement of the fiducial single top-quark production cross-section at the LHC with the ATLAS detector at 8 TeV center-of-mass energy. My responsibilities include the maintenance and development of the institute's analysis framework, which is written in C++ and Python. I am using Linux as well as Windows in most parts of my analysis.

TIMKO Helga



CERN, Geneva – Switzerland

After having been a CERN PhD student of the University of Helsinki working on plasma modelling of CLIC vacuum arcs and developing a 2D particle-in-cell code, I have studied longitudinal beam dynamics issues in the LHC injectors as a postdoctoral fellow with several beam dynamics codes. Presently, I work as staff physicist on simulations of the longitudinal beam emittance blow-up in the LHC. Contributing to the development of the new CERN code 'PyHEADTAIL', which allows for full 6D beam dynamics particle tracking, and analysing measurement data are part of my work. Amongst others, I am familiar with C++, python, bash, html, php, latex, and git source code management.

TOMOYORI Katsuaki



Japan Atomic Energy Agency, Naka-Gun - Japan

I have a PhD in biophysics, although my diploma thesis in MSc deals with nuclear experimental physics. That means I feel more at home in physics. For my PhD I switched to biophysics and protein chemistry. I am interested in the structural information of hydrogen atoms and hydration waters obtained by neutron protein crystallography. Currently, I am working at Quantum Beam Science Center, JAEA and participate in neutron structural biology group. I am engaged in designing a dedicated best-in-class high throughput and high resolution time-of-flight single crystal biomacromolecular neutron diffractometer at the J-PARC high power target station. In personal aspect, I really love travelling and learning new things, and discussing about any topic.

UL AIN Qurat



COMSATS Institute of Information Technology, Islamabad – Pakistan

Recently I have completed my Bachelors in Physics from COMSATS Institute of Information Technology. During my university studies I gained a wide spectrum of knowledge which varies from high energy physics and mathematics to computer programming and electrical circuits. From last year I have worked on research project "Performance of charm baryon in ITS under angular correlation". The main focus was to simulate the Silicon Pixel Detector (SPD) to detect the short decay length particle i.e. Λ_c with the good specification of detector. Used Geant4 in simulation work. Programming languages I am familiar with are C++, ROOT and Java. Finally CSC is ideal place to meet people of same interests, improve my technical skills and enjoy a beautiful island.

VISLAVICIUS Vytautas



Lund University - Sweden

I am currently a PhD student in the ALICE group in Lund University, Sweden. My master project focused on the energy loss of partons traversing the Quark Gluon Plasma, a hot dense medium created in Heavy Ion collisions. Now I am taking my analysis to a new level and looking into energy losses of jets. I am using PYTHIA + Fastjet to simulate the events with jets and compare them to what one observes with the ALICE detector. I have years of experience with C, C++ and working with ROOT/AliRoot frameworks. I am also involved with the ongoing ALICE upgrade, namely, developing the software for testing the new backplanes, as well as a new simulation of electron distortion due to ion flow in TPC.

VÖRÖS Viktor**ELI-HU Nonprofit Ltd., Szeged - Hungary**

I am 34 years old, married and have 2 children. I graduated in 2003 at the University of Szeged, Hungary. I got a Software Engineer (Msc) diploma. During the years I worked at various companies and worked on various projects like web application development, image processing and optimization, enterprise application development. I am (mostly) a Java developer with a wealth of experience building up complex systems but I have skills in C++, PHP, Ruby, HTML and JavaScript as well.

At the beginning of 2014 I joined ELI-ALPS where I help creating an environment for scientists which helps them with doing their work. My job involves application development and improvement as well as software integration, virtualization and multicore programming.

VOVCHENKO Volodymyr**Frankfurt University - Germany**

I am currently in my first year as a PhD student at the Frankfurt University, working mainly on the CBM experiment at FAIR. Previously, I finished MSc in Theoretical Physics where I worked on the description of relativistic heavy-ion collisions. Presently, I work on the on-line physics analysis and selection in the CBM experiment. My main task is the implementation of the procedures to extract various physical parameters from observables, which can give an insight into processes taking place in nucleus-nucleus collisions. An example of such parameter is temperature at the freeze-out. Due to very high data rate planned at CBM these procedures need to be very fast, vectorized and parallelized between cores of CPU and GPU. My working environment is CBMROOT framework running on Linux and the code is written in the C++ language. I am also familiar with Fortran and Java.

WAQAR Muhammad**COMSATS Institute of Information Technology, Islamabad – Pakistan**

I graduated in Computer Engineering from COMSATS Institute of IT (CIIT) Islamabad, Pakistan in 2011. Currently I am a Researcher at CIIT and in parallel working on MS thesis that is "optimization of Mobility Anchor Point (MAP) in Hierarchical Mobile IP". I worked a few months with ALICE - Inner Tracking System (ITS) group of CIIT, currently working on HPC simulators and schedulers. My responsibilities include the management and monitoring of PK-CIIT which is the Alice Tier-2 site. I am familiar with the Linux and comfortable with programming languages such as C/C++, Shell scripting, PHP, HTML, MYSQL, JAVA script, Assembly and VHDL.

WEJNEROWSKI Damian**Bergen University College - Norway**

I am a master student in software engineering at Bergen University College. I am also a member of the group working on upgrading the readout system for the ALICE TPC. During my master thesis I am developing a computer simulation for the CRU based readout chain to be installed during the LHC Long Shutdown 2. Many parts of the designed hardware are still under consideration and the simulation of hardware model will help to solve the problems occurred while designing the hardware for upgrade of TPC. Since 2012 I am a software developer in Norwegian public health service. I am focused on developing integration systems on .NET platform which are significant in introducing of a new standard for network security.

WITOWSKI Sebastian Jerzy**CERN, Geneva - Switzerland**

I first arrived at CERN in 2012 as a technical student in GS-SIS group where I have been working as a developer on the open access software suite Invenio and the High Energy Physics information system – INSPIRE (powered by Invenio). In September 2013 I became a Staff member of the IT-CIS-DLS team where I am involved in development and maintenance of the CERN Document Server, (again powered by Invenio). I am implementing new, multimedia related features, providing support to the CDS users and participating in various CERN projects related to digitization of the archives. In my everyday work I mainly use Python with a bit of JavaScript. I have a hands-on experience with C++, C#, Java, PHP programming languages and I am also interested in web technologies (HTML, CSS, JavaScript + frameworks). I mainly use Ubuntu but I am also familiar with Windows and other Linux operating systems.

YILDIRIM Eda**Deutsches Elektronen-Synchrotron, Hamburg - Germany**

I got my BSc and MSc degree in physics from Middle East Technical University in Turkey. Now, I am a PhD student at DESY working on Lorentz angle measurement on highly irradiated silicon micro strip detectors for future ATLAS tracker. My work consists of developing software to analyse the data I took with the test beam setup I prepared for Lorentz angle measurement. Right now, data taking is done and I am working on software needed to do the analysis in EUTelescope data analysis framework. The software I am developing is aimed to be used by other users and designed to reconstruct signal we get from strip sensors, align it with rest of pixel sensors in the system, find the track of passing particle and use these tracks to do final analysis. I am mainly using C++ and ROOT in linux operating system. I am also familiar with basics of shell and python.