

# **International Conference on Particle Physics "In Memoriam" Engin Arık and Her Colleagues**

## **Report of Contributions**

Contribution ID: 0

Type: **not specified**

## Opening Remarks

*Monday 27 October 2008 10:30 (10 minutes)*

**Presenter:** Prof. GÜLMEZ, Erhan (Bogazici University)

**Session Classification:** WELCOME AND OPENING

Contribution ID: 1

Type: **not specified**

## **Rector's Welcome, Boğaziçi University**

*Monday 27 October 2008 10:40 (10 minutes)*

**Primary author:** ÖZCALDIRAN, Kadri (Bogazici University)

**Presenter:** BARBAROSOGLU, Gülay (Bogazici University)

**Session Classification:** WELCOME AND OPENING

Contribution ID: 2

Type: **not specified**

## Rector's Welcome, Doğuş University

*Monday 27 October 2008 10:50 (10 minutes)*

**Primary author:** UYSAL, Mitat (Doğuş University)

**Presenter:** CERANOGLU, Ahmet (Doğuş University)

**Session Classification:** WELCOME AND OPENING

Contribution ID: 3

Type: **not specified**

## **Physics with Long Baseline, Broad Band Neutrino Beams and Large Detectors**

*Monday 27 October 2008 14:35 (50 minutes)*

**Primary author:** SAMIOS, Nicholas P. (BNL/RBRC)

**Presenter:** SAMIOS, Nicholas P. (BNL/RBRC)

**Session Classification:** OPENING PLENARY

Contribution ID: 4

Type: **not specified**

# The ATLAS Experiment Entering Operation

*Monday 27 October 2008 15:25 (50 minutes)*

**Primary author:** JENNI, Peter (CERN)

**Presenter:** JENNI, Peter (CERN)

**Session Classification:** OPENING PLENARY

Contribution ID: 5

Type: **not specified**

## COFFEE BREAK

*Monday 27 October 2008 16:15 (30 minutes)*

**Session Classification:** OPENING PLENARY

Contribution ID: 6

Type: **not specified**

# The enigmatic sun as laboratory for new physics

*Monday 27 October 2008 16:45 (50 minutes)*

**Primary author:** Prof. ZIOUTAS, Konstantin (University of Patras)

**Presenter:** Prof. ZIOUTAS, Konstantin (University of Patras)

**Session Classification:** OPENING PLENARY



Contribution ID: 7

Type: **not specified**

## Latest Results from the Tevatron

*Monday 27 October 2008 17:35 (50 minutes)*

**Primary author:** NACHTMAN, Jane (The University of Iowa/FNAL)

**Presenter:** NACHTMAN, Jane (The University of Iowa/FNAL)

**Session Classification:** OPENING PLENARY

Contribution ID: 8

Type: **not specified**

## Physics with the CMS Detector

*Tuesday 28 October 2008 09:00 (50 minutes)*

**Primary author:** GREEN, Dan (Fermi National Accelerator Laboratory (FNAL))

**Presenter:** GREEN, Dan (Fermi National Accelerator Laboratory (FNAL))

**Session Classification:** HIGH ENERGY PHYSICS IN LHC PLENARY

Contribution ID: 9

Type: **not specified**

## What physics at the SLHC

*Tuesday 28 October 2008 09:50 (50 minutes)*

**Primary author:** DENEGRI, Daniel (DAPNIA)

**Presenter:** DENEGRI, Daniel (DAPNIA)

**Session Classification:** HIGH ENERGY PHYSICS IN LHC PLENARY

Contribution ID: **10**

Type: **not specified**

## COFFEE BREAK

*Tuesday 28 October 2008 10:40 (20 minutes)*

**Session Classification:** HIGH ENERGY PHYSICS IN LHC PLENARY

Contribution ID: **11**

Type: **not specified**

## Women and physics

*Tuesday 28 October 2008 11:00 (50 minutes)*

**Primary author:** GAGNON, Pauline (Indiana University)

**Presenter:** GAGNON, Pauline (Indiana University)

**Session Classification:** HIGH ENERGY PHYSICS IN LHC PLENARY

Contribution ID: 12

Type: **not specified**

## Search for the Higgs bosons at the LHC

*Tuesday 28 October 2008 11:50 (50 minutes)*

**Primary author:** KOURKOUMELIS, Christine (University of Athens)

**Presenter:** KOURKOUMELIS, Christine (University of Athens)

**Session Classification:** HIGH ENERGY PHYSICS IN LHC PLENARY

Contribution ID: 13

Type: **not specified**

## **The ATLAS TRT: its characteristics, construction, test-beam performance /experience and results with first data**

*Tuesday 28 October 2008 14:00 (15 minutes)*

**Primary author:** FROIDVEAUX, Daniel (CERN)

**Presenter:** FROIDVEAUX, Daniel (CERN)

**Session Classification:** LHC PHYSICS CONTRIBUTED TALKS SESSION I

Contribution ID: 14

Type: **not specified**

## **CASTOR: A novel, very forward calorimeter at CMS**

*Tuesday 28 October 2008 14:15 (15 minutes)*

**Primary author:** Prof. PANAGIOTOU, Apostolos (University of Athens, Hellas)

**Presenter:** Prof. PANAGIOTOU, Apostolos (University of Athens, Hellas)

**Session Classification:** LHC PHYSICS CONTRIBUTED TALKS SESSION I



Contribution ID: 15

Type: **not specified**

## **Prospects for quark searches and their impact to Higgs searches in ATLAS**

*Tuesday 28 October 2008 14:30 (15 minutes)*

**Primary author:** Dr UNEL, Gokhan (U.C. Irvine)

**Presenter:** Dr UNEL, Gokhan (U.C. Irvine)

**Session Classification:** LHC PHYSICS CONTRIBUTED TALKS SESSION I

Contribution ID: 16

Type: **not specified**

## CMS triggers for LHC startup

*Tuesday 28 October 2008 14:45 (15 minutes)*

**Primary author:** NGUYEN, Chi Nhan (Texas A&M University)

**Presenter:** NGUYEN, Chi Nhan (Texas A&M University)

**Session Classification:** LHC PHYSICS CONTRIBUTED TALKS SESSION I

Contribution ID: 17

Type: **not specified**

## **Search for the VBF Higgs→tau-tau decays with the ATLAS Detector at the LHC**

*Tuesday 28 October 2008 15:00 (15 minutes)*

**Primary author:** MAZINI, Rachid (University of Toronto)

**Presenter:** MAZINI, Rachid (University of Toronto)

**Session Classification:** LHC PHYSICS CONTRIBUTED TALKS SESSION I

Contribution ID: **18**

Type: **not specified**

## **Searching for new physics in events with three leptons in ATLAS**

*Tuesday 28 October 2008 15:15 (15 minutes)*

**Primary author:** POTTER, Christina (RHUL)

**Presenter:** POTTER, Christina (RHUL)

**Session Classification:** LHC PHYSICS CONTRIBUTED TALKS SESSION I

Contribution ID: **19**

Type: **not specified**

## **The reach of the ATLAS experiment in SUSY parameter space**

*Tuesday 28 October 2008 15:30 (15 minutes)*

**Primary author:** DIETRICH, Janet (Universitaet Freiburg)

**Presenter:** DIETRICH, Janet (Universitaet Freiburg)

**Session Classification:** LHC PHYSICS CONTRIBUTED TALKS SESSION I

Contribution ID: 20

Type: **not specified**

# Diboson Physics Studies in the ATLAS Experiment

*Tuesday 28 October 2008 15:45 (15 minutes)*

**Primary author:** LEVIN, Dan (University of Michigan)

**Presenter:** LEVIN, Dan (University of Michigan)

**Session Classification:** LHC PHYSICS CONTRIBUTED TALKS SESSION I

Contribution ID: 21

Type: **not specified**

## Rediscovering SM physics with the ATLAS detector

*Tuesday 28 October 2008 16:30 (15 minutes)*

**Primary author:** FLOWERDEW, Michael James (University of Liverpool)

**Presenter:** FLOWERDEW, Michael James (University of Liverpool)

**Session Classification:** LHC PHYSICS CONTRIBUTED TALKS SESSION II

Contribution ID: 22

Type: **not specified**

## **Production of jets accompanied by W and Z bosons at LHC startup**

*Tuesday 28 October 2008 16:45 (15 minutes)*

**Primary author:** DOBUR, Didar (INFN, Sezione di Pisa)

**Presenter:** DOBUR, Didar (INFN, Sezione di Pisa)

**Session Classification:** LHC PHYSICS CONTRIBUTED TALKS SESSION II



Contribution ID: 23

Type: **not specified**

## Jet Shapes at CMS

*Tuesday 28 October 2008 17:00 (15 minutes)*

**Primary author:** KURT, Pelin (Cukurova University/FNAL)

**Presenter:** KURT, Pelin (Cukurova University/FNAL)

**Session Classification:** LHC PHYSICS CONTRIBUTED TALKS SESSION II

Contribution ID: 24

Type: **not specified**

## Electron and Photon Reconstruction and Identification with the ATLAS Detector

*Tuesday 28 October 2008 17:15 (15 minutes)*

**Primary author:** MALEEV, Victor (Petersburg Nuclear Physics Institute (PNPI))

**Presenter:** MALEEV, Victor (Petersburg Nuclear Physics Institute (PNPI))

**Session Classification:** LHC PHYSICS CONTRIBUTED TALKS SESSION II

Contribution ID: 25

Type: **not specified**

## MSSM neutral Higgs searches

*Tuesday 28 October 2008 17:30 (15 minutes)*

**Primary author:** GENTILE, Simonetta (Universita di Roma I "La Sapienza")

**Presenter:** GENTILE, Simonetta (Universita di Roma I "La Sapienza")

**Session Classification:** LHC PHYSICS CONTRIBUTED TALKS SESSION II

Contribution ID: 26

Type: **not specified**

## Muon Identification for the ATLAS Experiment

*Tuesday 28 October 2008 17:45 (15 minutes)*

**Primary author:** MOYSE, Edward (UMass)

**Presenter:** MOYSE, Edward (UMass)

**Session Classification:** LHC PHYSICS CONTRIBUTED TALKS SESSION II

Contribution ID: 27

Type: **not specified**

## Search For Scalar And Vector Diquarks At The LHC

*Tuesday 28 October 2008 18:00 (15 minutes)*

**Primary author:** SAHIN, Mehmet (Ankara University)

**Co-author:** CAKIR, Orhan (University of Ankara)

**Presenter:** SAHIN, Mehmet (Ankara University)

**Session Classification:** LHC PHYSICS CONTRIBUTED TALKS SESSION II

Contribution ID: 28

Type: **not specified**

## A study of anomalous events in the HF PMTs

*Tuesday 28 October 2008 18:15 (15 minutes)*

**Primary author:** HALU, Arda (Bogazici University)

**Co-authors:** GÜLMEZ, Erhan (Bogazici University); DELIOMEROGLU, Mehmet (Bogazici University)

**Presenter:** HALU, Arda (Bogazici University)

**Session Classification:** LHC PHYSICS CONTRIBUTED TALKS SESSION II

Contribution ID: 29

Type: **not specified**

## Charm physics with CHORUS

*Wednesday 29 October 2008 09:00 (5 minutes)*

**Primary author:** PANMAN, Jaap (CERN)

**Presenter:** PANMAN, Jaap (CERN)

**Session Classification:** DARK MATTER AND NEUTRINO PHYSICS PLENARY

Contribution ID: 30

Type: **not specified**

## **Final results from a search for nu-mu to nu-tau oscillations with the CHORUS experiment**

*Wednesday 29 October 2008 09:05 (5 minutes)*

**Primary author:** Prof. TSENOV, Roumen (University of Sofia)

**Presenter:** Prof. TSENOV, Roumen (University of Sofia)

**Session Classification:** DARK MATTER AND NEUTRINO PHYSICS PLENARY



Contribution ID: 31

Type: **not specified**

## **Structure of the Proton, Neutron, and Deuteron from Scattering of Polarized Electrons by Polarized Gas Targets**

*Wednesday 29 October 2008 11:00 (50 minutes)*

**Primary author:** MATTHEWS, June L. (MIT)

**Presenter:** MATTHEWS, June L. (MIT)

**Session Classification:** SPIN PHYSICS PLENARY

Contribution ID: **32**

Type: **not specified**

## Hadron Spin Physics

*Wednesday 29 October 2008 11:50 (50 minutes)*

**Primary author:** PENZO, Aldo (INFN-Trieste)

**Presenter:** PENZO, Aldo (INFN-Trieste)

**Session Classification:** SPIN PHYSICS PLENARY

Contribution ID: 33

Type: **not specified**

## Borexino Experiment Results

*Wednesday 29 October 2008 14:00 (45 minutes)*

**Primary author:** GIAMMARCHI, Marco (INFN - Milan)

**Presenter:** GIAMMARCHI, Marco (INFN - Milan)

**Session Classification:** DARK MATTER CONTRIBUTED TALKS SESSION

Contribution ID: 34

Type: **not specified**

## **The Status of OPERA: Long Baseline Neutrino Oscillation Experiment**

*Wednesday 29 October 2008 14:45 (45 minutes)*

**Primary author:** GULER, Murat Ali (METU)

**Presenter:** GULER, Murat Ali (METU)

**Session Classification:** DARK MATTER CONTRIBUTED TALKS SESSION

Contribution ID: 35

Type: **not specified**

## Recent Developments in Neutrino Physics

*Wednesday 29 October 2008 15:30 (30 minutes)*

**Primary author:** PASCHOS, Emmanuel A. (Dortmund University)

**Presenter:** PASCHOS, Emmanuel A. (Dortmund University)

**Session Classification:** DARK MATTER CONTRIBUTED TALKS SESSION

Contribution ID: **36**

Type: **not specified**

## **Search for low scale gravity signatures in ATLAS**

*Wednesday 29 October 2008 16:30 (15 minutes)*

**Primary author:** KARAGOZ UNEL, Muge (University of Oxford)

**Presenter:** KARAGOZ UNEL, Muge (University of Oxford)

**Session Classification:** LHC PHYSICS CONTRIBUTED TALKS SESSION III

Contribution ID: 37

Type: **not specified**

# **Search for the Standard Model Higgs→gamma-gamma decays with the ATLAS Detector at the LHC**

*Wednesday 29 October 2008 16:45 (15 minutes)*

**Primary author:** MARCHAND, Jean-François (LAPP)

**Presenter:** MARCHAND, Jean-François (LAPP)

**Session Classification:** LHC PHYSICS CONTRIBUTED TALKS SESSION III

Contribution ID: **38**

Type: **not specified**

## Vector Boson Scattering at ATLAS

*Wednesday 29 October 2008 17:00 (15 minutes)*

**Primary author:** OZCAN, Erkcan (University College London)

**Presenter:** OZCAN, Erkcan (University College London)

**Session Classification:** LHC PHYSICS CONTRIBUTED TALKS SESSION III



Contribution ID: 39

Type: **not specified**

## **Determination of invisible Z boson+jets background to Hadronic SUSY search**

*Wednesday 29 October 2008 17:15 (15 minutes)*

**Primary author:** TOPAKLI, Hüseyin (Cukurova University/FNAL)

**Presenter:** TOPAKLI, Hüseyin (Cukurova University/FNAL)

**Session Classification:** LHC PHYSICS CONTRIBUTED TALKS SESSION III

Contribution ID: 40

Type: **not specified**

## Early top physics in ATLAS

*Wednesday 29 October 2008 17:30 (15 minutes)*

**Primary author:** SCHIECK, Jochen (Max-Planck-Institut für Physik)

**Presenter:** SCHIECK, Jochen (Max-Planck-Institut für Physik)

**Session Classification:** LHC PHYSICS CONTRIBUTED TALKS SESSION III

Contribution ID: 41

Type: **not specified**

## **b-tagging performance in ATLAS**

*Wednesday 29 October 2008 17:45 (15 minutes)*

**Primary author:** GORFINE, Grant (Bergische Universitaet Wuppertal)

**Presenter:** GORFINE, Grant (Bergische Universitaet Wuppertal)

**Session Classification:** LHC PHYSICS CONTRIBUTED TALKS SESSION III

Contribution ID: 42

Type: **not specified**

## **Anomalous Single Production of the Fourth Generation Quarks at Future ep and gamma-p Colliders**

*Wednesday 29 October 2008 18:00 (15 minutes)*

**Primary author:** CIFTCI, Abbas Kenan (University of Ankara)

**Presenter:** CIFTCI, Abbas Kenan (University of Ankara)

**Session Classification:** LHC PHYSICS CONTRIBUTED TALKS SESSION III

Contribution ID: 43

Type: **not specified**

## **A new accelerator for advanced research and cancer therapy**

*Thursday 30 October 2008 09:00 (50 minutes)*

**Primary author:** PEACH, Ken (JAI-University of Oxford/RHUL)

**Presenter:** PEACH, Ken (JAI-University of Oxford/RHUL)

**Session Classification:** ACCELERATOR PHYSICS PLENARY

Contribution ID: 44

Type: **not specified**

# The SLHC Program and CMS Detector Upgrades

*Thursday 30 October 2008 09:50 (50 minutes)*

**Primary author:** ONEL, Yasar (The University of Iowa)

**Presenter:** ONEL, Yasar (The University of Iowa)

**Session Classification:** ACCELERATOR PHYSICS PLENARY

Contribution ID: 45

Type: **not specified**

## COFFEE BREAK

*Thursday 30 October 2008 10:40 (20 minutes)*

**Session Classification:** ACCELERATOR PHYSICS PLENARY

Contribution ID: 46

Type: **not specified**

# The Physics Case for CLIC

*Thursday 30 October 2008 11:00 (50 minutes)*

**Primary author:** ELLIS, Jonathan R. (CERN)

**Presenter:** ELLIS, Jonathan R. (CERN)

**Session Classification:** ACCELERATOR PHYSICS PLENARY



Contribution ID: 47

Type: **not specified**

# The International Linear Collider and its Detectors

*Thursday 30 October 2008 11:50 (50 minutes)*

**Primary author:** REPOND, Jose (ANL)

**Presenter:** REPOND, Jose (ANL)

**Session Classification:** ACCELERATOR PHYSICS PLENARY

Contribution ID: 48

Type: **not specified**

## **Turkish Accelerator Center (TAC) Project First Facility and Road Map**

*Thursday 30 October 2008 14:00 (45 minutes)*

**Primary author:** YAVAS, Ömer (Ankara University)

**Presenter:** YAVAS, Ömer (Ankara University)

**Session Classification:** ACCELERATOR PHYSICS CONTRIBUTED TALKS SESSION

Contribution ID: 49

Type: **not specified**

## **Energy Recovery Linac as an Alternative Option for TAC and QCD-E Projects**

*Thursday 30 October 2008 14:45 (15 minutes)*

**Primary author:** KETENOGLU, Bora (Ankara University)

**Co-author:** YAVAS, Ömer (Ankara University)

**Presenter:** KETENOGLU, Bora (Ankara University)

**Session Classification:** ACCELERATOR PHYSICS CONTRIBUTED TALKS SESSION

Contribution ID: 50

Type: **not specified**

## Comparison of Double Bend and Triple Bend Achromatic Lattice Structures for TAC TDR-SR

*Thursday 30 October 2008 15:00 (15 minutes)*

**Primary author:** ZENGİN, Kahraman (Ankara University)

**Co-authors:** CİFTÇİ, Abbas Kenan (Ankara University); NERGİZ, Zafer (Nigde University)

**Presenter:** ZENGİN, Kahraman (Ankara University)

**Session Classification:** ACCELERATOR PHYSICS CONTRIBUTED TALKS SESSION

Contribution ID: 51

Type: **not specified**

## Main Characteristics of TAC IR FEL

*Thursday 30 October 2008 15:15 (15 minutes)*

**Primary author:** YAVAS, Ömer (Ankara University)

**Presenter:** YAVAS, Ömer (Ankara University)

**Session Classification:** ACCELERATOR PHYSICS CONTRIBUTED TALKS SESSION

Contribution ID: 52

Type: **not specified**

## Research Potential of TAC IR FEL Facility

*Thursday 30 October 2008 15:30 (15 minutes)*

**Primary author:** TURAL, Müge (Ankara University)

**Co-authors:** ARIKAN, Pervin (Gazi University); YAVAS, Ömer (Ankara University)

**Presenter:** TURAL, Müge (Ankara University)

**Session Classification:** ACCELERATOR PHYSICS CONTRIBUTED TALKS SESSION

Contribution ID: 53

Type: **not specified**

## The Status of the CMS

*Friday 31 October 2008 09:00 (50 minutes)*

**Primary author:** GREEN, Dan (Fermi National Accelerator Laboratory (FNAL))

**Presenter:** GREEN, Dan (Fermi National Accelerator Laboratory (FNAL))

**Session Classification:** CLOSING PLENARY

Contribution ID: 54

Type: **not specified**

## Deuteron Dipole Moment Experiment

*Friday 31 October 2008 09:50 (50 minutes)*

**Primary author:** Dr SEMERTZIDIS, Yannis (BNL)

**Presenter:** Dr SEMERTZIDIS, Yannis (BNL)

**Session Classification:** CLOSING PLENARY



Contribution ID: 55

Type: **not specified**

## COFFEE BREAK

*Friday 31 October 2008 10:40 (20 minutes)*

**Session Classification:** CLOSING PLENARY

Contribution ID: 56

Type: **not specified**

## Naturalness of the Fourth SM Family

*Friday 31 October 2008 11:00 (50 minutes)*

**Primary author:** SULTANSOY, Saleh (TOBB University of Economics and Technology)

**Presenter:** SULTANSOY, Saleh (TOBB University of Economics and Technology)

**Session Classification:** CLOSING PLENARY