

**MOCAS 2023**  
**Workshop on Technology and Instrumentation for Particle Physics**

**Thursday, 29 June 2023**  
**(Greek summer time or GMT+3)**

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| <b>09:00 – 11:00</b> | <b>Session A3 Detector and Electronics</b><br><i>Chair: K. Kordas</i><br><br><u>Invited talks:</u><br><br>09:00 <b>Novel Picosecond detectors</b><br><i>Speaker: Spyros Tzamarias, AUTH, Greece</i><br><br>09:40 <b>Challenges for the design of large, long-lifetime collider detectors and their upgrades, with examples mostly from ATLAS and muon systems</b><br><i>Speaker: Massimo Corradi, INFN-Roma, Italy</i><br><br><u>Papers to be presented:</u><br><br>10:20 <b>Muon Tomography Application with Micromegas Detectors</b><br><i>Speaker: Dimos Sampsonidis, AUTH, Greece</i><br><br>10:40 <b>Performance of MicroMegas Electronics in a High-Radiation Environment</b><br><i>Speaker: Fotini Colitsi, UNIWA, Greece</i> |
| <b>11:00 – 11:30</b> | <b>Coffee Break</b>  |
| <b>11:30 – 12:30</b> | <b>Plenary 3</b><br><i>Chair: K. Kloukinas</i><br><br><b>Hybrid pixel detectors: from the discovery of the Higgs Boson to advances in medical imaging</b><br><i>Speaker: Michael Campbell, CERN, Swiss</i>   |
| <b>12:30 – 13:30</b> | <b>Session A3b Triggering &amp; DAQ</b><br><i>Chair: A. Zachariadou</i><br><br><u>Invited talks:</u><br><br>12:30 <b>Hardware Triggering in High Energy Physics</b><br><i>Speaker: Riccardo Vari, INFN-Roma, Italy</i><br><br><u>Papers to be presented:</u><br><br>13:10 <b>The ATLAS RPC-BIS78 Readout and Trigger System</b><br><i>Speaker: Andreas Vgenopoulos, AUTH, Greece</i>   |
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| <b>13:30 – 14:45</b> | <b>Lunch Break</b>  |
| <b>14:45 – 16:35</b> | <p><b>Session A4 Front ends for Readout and Control</b><br/> <i>Chair: Efstathios Kyriakis-Bitaros</i></p> <p><u>Invited talks:</u></p> <p>14:45 <b>Developing complex front-end read out systems and ASICs for HL-LHC experiments; the CMS Outer Tracker case</b><br/> <i>Speaker: Kostas Kloukinas, CERN, Swiss</i></p> <p>15:15 <b>Precision Timing ASIC development for LGAD-based CMS Endcap Timing Layer (ETL) upgrade</b><br/> <i>Speaker: Tiehui Ted Liu, Fermi National Accelerator Lab, USA</i></p> <p><u>Papers to be presented:</u></p> <p>15:45 <b>Radiation-Tolerant SoC and Application-Specific Processors for On-Detector Programmability and Data Processing in Future High-Energy Physics Experiments</b><br/> <i>Speaker: Marco Andorno, CERN, Swiss</i></p> <p>16:10 <b>Data Preparation And Optimization For Real Time Track Reconstruction On The ATLAS HTT PRM Board</b><br/> <i>Speaker: Konstantinos Axiotis, CERN, Swiss</i></p> |
| <b>16:30 – 17:00</b> | <b>Coffee Break</b>   |
| <b>17:00 – 18:20</b> | <p><b>Session A5 Accelerators and Beam Instrumentation</b><br/> <i>Chair: A. Zachariadou</i></p> <p><u>Invited talks:</u></p> <p>17:00 <b>Present and Future Accelerator Physics Challenges at CERN</b><br/> <i>Speaker: Yannis Papaphilippou, CERN, Swiss</i></p> <p><b>17:40-18:00 Development of Radiation-Tolerant and High-Reliability Beam Loss Monitoring Electronics for HL-LHC at CERN</b><br/> <i>Speaker: Christos Zamantzas, CERN, Swiss</i></p>  |

**Conference Dinner: 20:45**