

Advanced UK Instrumentation Training 2022

Report of Contributions

Contribution ID: 7

Type: **not specified**

Monte Carlo Simulations - Allpix squared 2

Tuesday 14 June 2022 15:00 (1 hour)

Presenter: HYNDS, Daniel (University of Oxford (GB))

Session Classification: Software tools

Contribution ID: 8

Type: **not specified**

Monte Carlo Simulations - Allpix squared 1

Friday 10 June 2022 11:00 (1 hour)

Presenter: HYNDS, Daniel (University of Oxford (GB))

Session Classification: Software tools

Contribution ID: 9

Type: **not specified**

Band theory 1

Tuesday 26 April 2022 16:00 (1 hour)

Presenter: WEATHERILL, Daniel

Session Classification: Semiconductor theory

Contribution ID: **10**

Type: **not specified**

Band theory 2

Friday 29 April 2022 12:00 (1 hour)

Presenter: WEATHERILL, Daniel

Session Classification: Semiconductor theory

Contribution ID: 11

Type: **not specified**

Device layout, guard rings, device calculations 1

Tuesday 3 May 2022 16:00 (1 hour)

Presenter: VILLANI, Enrico Giulio (Science and Technology Facilities Council STFC (GB))

Session Classification: Semiconductor theory

Contribution ID: 12

Type: **not specified**

Device layout, guard rings, device calculations 2

Friday 6 May 2022 12:00 (1 hour)

Presenter: VILLANI, Enrico Giulio (Science and Technology Facilities Council STFC (GB))

Session Classification: Semiconductor theory

Contribution ID: 13

Type: **not specified**

Interaction of particles with matter 1

Friday 13 May 2022 10:00 (1 hour)

Presenter: ALLPORT, Philip Patrick (University of Birmingham (UK))

Session Classification: Semiconductor theory

Contribution ID: 14

Type: **not specified**

Interaction of particles with matter 2

Friday 13 May 2022 11:00 (1 hour)

Presenter: ALLPORT, Philip Patrick (University of Birmingham (UK))

Session Classification: Semiconductor theory

Contribution ID: 15

Type: **not specified**

Ramo Shockley theory

Friday 13 May 2022 12:00 (1 hour)

Presenter: WINDISCHHOFER, Philipp (University of Oxford (GB))

Session Classification: Semiconductor theory

Contribution ID: 16

Type: **not specified**

Radiation damage 1

Tuesday 17 May 2022 15:00 (1 hour)

Presenter: GONELLA, Laura (University of Birmingham (UK))

Session Classification: Semiconductor theory

Contribution ID: 17

Type: **not specified**

Radiation damage 2

Tuesday 17 May 2022 16:00 (1 hour)

Presenter: GONELLA, Laura (University of Birmingham (UK))

Session Classification: Semiconductor theory

Contribution ID: **18**

Type: **not specified**

General electronics, simple circuit calculations

Tuesday 26 April 2022 13:00 (1 hour)

Presenter: BLUMENSCHN, Ulla (University of London (GB))

Session Classification: Electronics and DAQ

Contribution ID: 19

Type: **not specified**

Circuit theory, common topologies

Friday 29 April 2022 09:00 (1 hour)

Presenter: BLUMENSCHN, Ulla (University of London (GB))

Session Classification: Electronics and DAQ

Contribution ID: 20

Type: **not specified**

Circuit design, noise and grounding

Tuesday 3 May 2022 13:00 (1 hour)

Presenter: ZHANG, Weida

Session Classification: Electronics and DAQ

Contribution ID: 21

Type: **not specified**

Amplifier design, TDC

Friday 6 May 2022 09:00 (1 hour)

Presenter: ZHANG, Weida

Session Classification: Electronics and DAQ

Contribution ID: 22

Type: **not specified**

[cancelled] Typical ASIC architectures

Tuesday 10 May 2022 13:00 (1 hour)

Session Classification: Electronics and DAQ

Contribution ID: 23

Type: **not specified**

PCB layout

Friday 13 May 2022 09:00 (1 hour)

Presenter: NAIK, Sneha Amogh (University of Glasgow (GB))

Session Classification: Electronics and DAQ

Contribution ID: 24

Type: **not specified**

Trigger and DAQ 1

Tuesday 17 May 2022 13:00 (1 hour)

Presenter: ROSE, Andrew

Session Classification: Electronics and DAQ

Contribution ID: 25

Type: **not specified**

Trigger and DAQ 2

Friday 20 May 2022 09:00 (1 hour)

Presenter: ROSE, Andrew

Session Classification: Electronics and DAQ

Contribution ID: 26

Type: **not specified**

Mechanical structures 1

Tuesday 26 April 2022 15:00 (1 hour)

Presenter: VIEHHAUSER, Georg (University of Oxford (GB))

Session Classification: Mechanics and cooling

Contribution ID: 27

Type: **not specified**

Mechanical structures 2

Friday 29 April 2022 10:00 (1 hour)

Presenter: VIEHHAUSER, Georg (University of Oxford (GB))

Session Classification: Mechanics and cooling

Contribution ID: 28

Type: **not specified**

Thermal management 1

Tuesday 3 May 2022 15:00 (1 hour)

Presenter: VIEHHAUSER, Georg (University of Oxford (GB))

Session Classification: Mechanics and cooling

Contribution ID: 29

Type: **not specified**

Thermal management 2

Friday 6 May 2022 10:00 (1 hour)

Presenter: VIEHHAUSER, Georg (University of Oxford (GB))

Session Classification: Mechanics and cooling

Contribution ID: **30**

Type: **not specified**

CAD and technical drawing

Friday 10 June 2022 10:00 (1 hour)

Presenter: BOOTH, Michael Jack (University of Oxford (GB))

Session Classification: Mechanics and cooling

Contribution ID: **31**

Type: **not specified**

FE analysis tools

Tuesday 14 June 2022 14:00 (1 hour)

Presenter: BOOTH, Michael Jack (University of Oxford (GB))

Session Classification: Mechanics and cooling

Contribution ID: 32

Type: **not specified**

CAD walkthrough

Friday 17 June 2022 10:00 (1 hour)

Presenter: BOOTH, Michael Jack (University of Oxford (GB))

Session Classification: Mechanics and cooling

Contribution ID: 33

Type: **not specified**

Device fabrication 1

Tuesday 26 April 2022 14:00 (1 hour)

Presenters: BLUE, Andrew (University of Glasgow (GB)); VILLANI, Enrico Giulio (Science and Technology Facilities Council STFC (GB))

Session Classification: Silicon fabrication and structures

Contribution ID: 34

Type: **not specified**

Device fabrication 2

Friday 29 April 2022 11:00 (1 hour)

Presenters: BLUE, Andrew (University of Glasgow (GB)); VILLANI, Enrico Giulio (Science and Technology Facilities Council STFC (GB))

Session Classification: Silicon fabrication and structures

Contribution ID: 35

Type: **not specified**

Device fabrication 3

Tuesday 3 May 2022 14:00 (1 hour)

Presenters: BLUE, Andrew (University of Glasgow (GB)); VILLANI, Enrico Giulio (Science and Technology Facilities Council STFC (GB))

Session Classification: Silicon fabrication and structures

Contribution ID: **36**

Type: **not specified**

Device fabrication 4

Friday 6 May 2022 11:00 (1 hour)

Presenters: BLUE, Andrew (University of Glasgow (GB)); VILLANI, Enrico Giulio (Science and Technology Facilities Council STFC (GB))

Session Classification: Silicon fabrication and structures

Contribution ID: 37

Type: **not specified**

Device structures: planar and 3D

Tuesday 10 May 2022 14:00 (1 hour)

Presenter: MUNOZ SANCHEZ, Francisca (University of Manchester (GB))

Session Classification: Silicon fabrication and structures

Contribution ID: **38**

Type: **not specified**

Device structures: Gain Layers (LGAD, SPAD, SiPM)

Tuesday 10 May 2022 15:00 (1 hour)

Presenter: MUNOZ SANCHEZ, Francisca (University of Manchester (GB))

Session Classification: Silicon fabrication and structures

Contribution ID: 39

Type: **not specified**

Device structures: monolithic

Tuesday 17 May 2022 14:00 (1 hour)

Presenter: VILELLA FIGUERAS, Eva (University of Liverpool (GB))

Session Classification: Silicon fabrication and structures

Contribution ID: 40

Type: **not specified**

Transistor layout: 250 - 28 nm, FinFETs

Friday 20 May 2022 10:00 (1 hour)

Presenter: VILELLA FIGUERAS, Eva (University of Liverpool (GB))

Session Classification: Silicon fabrication and structures

Contribution ID: 41

Type: **not specified**

Diamond detectors 1

Friday 20 May 2022 11:00 (1 hour)

Presenter: OH, Alexander (University of Manchester (GB))

Session Classification: Short topics

Contribution ID: 42

Type: **not specified**

Diamond detectors 2

Friday 20 May 2022 12:00 (1 hour)

Presenter: OH, Alexander (University of Manchester (GB))

Session Classification: Short topics

Contribution ID: 43

Type: **not specified**

Photon science applications

Tuesday 24 May 2022 14:00 (1 hour)

Presenter: HOBSON, Peter (Queen mary University London)

Session Classification: Short topics

Contribution ID: 44

Type: **not specified**

Other silicon devices: CCDs, Depfets, imaging sensors

Tuesday 31 May 2022 14:00 (1 hour)

Presenter: WEATHERILL, Daniel

Session Classification: Short topics

Contribution ID: 45

Type: **not specified**

Dosimetry and medical applications

Friday 17 June 2022 11:00 (1 hour)

Presenter: TAYLOR, Jon (University of Liverpool (GB))

Session Classification: Short topics

Contribution ID: 46

Type: **not specified**

Lab techniques: IV, CV, source and x-ray measurements 1

Tuesday 24 May 2022 13:00 (1 hour)

Presenter: HOMMELS, Bart (University of Cambridge (GB))

Session Classification: Experimental techniques

Contribution ID: 47

Type: **not specified**

Lab techniques: IV, CV, source and x-ray measurements 2

Friday 27 May 2022 10:00 (1 hour)

Presenter: HOMMELS, Bart (University of Cambridge (GB))

Session Classification: Experimental techniques

Contribution ID: 48

Type: **not specified**

Transient current techniques

Friday 10 June 2022 09:00 (1 hour)

Presenter: HYNDS, Daniel (University of Oxford (GB))

Session Classification: Experimental techniques

Contribution ID: 49

Type: **not specified**

Solid state techniques: DLTS, TSC

Tuesday 14 June 2022 13:00 (1 hour)

Presenter: HYNDS, Daniel (University of Oxford (GB))

Session Classification: Experimental techniques

Contribution ID: 50

Type: **not specified**

Testbeams 1

Tuesday 31 May 2022 13:00 (1 hour)

Presenters: VELTHUIS, Jaap; VELTHUIS, Johannes (University of Bristol (GB))

Session Classification: Experimental techniques

Contribution ID: 51

Type: **not specified**

Testbeams 2

Tuesday 7 June 2022 13:00 (1 hour)

Presenters: VELTHUIS, Jaap; VELTHUIS, Johannes (University of Bristol (GB))

Session Classification: Experimental techniques

Contribution ID: 52

Type: **not specified**

Irradiation 1

Friday 17 June 2022 09:00 (1 hour)

Presenter: TAYLOR, Jon (University of Liverpool (GB))

Session Classification: Experimental techniques

Contribution ID: 53

Type: **not specified**

Irradiation 2

Tuesday 21 June 2022 13:00 (1 hour)

Presenter: TAYLOR, Jon (University of Liverpool (GB))

Session Classification: Experimental techniques

Contribution ID: 54

Type: **not specified**

TCAD 1

Tuesday 24 May 2022 16:00 (1 hour)

Presenters: VILLANI, Enrico Giulio (Science and Technology Facilities Council STFC (GB)); OWEN, Nick (RAL)

Session Classification: TCAD electric field and transport simulations

Contribution ID: 55

Type: **not specified**

TCAD 2

Friday 27 May 2022 12:00 (1 hour)

Presenters: VILLANI, Enrico Giulio (Science and Technology Facilities Council STFC (GB)); OWEN, Nick (RAL)

Session Classification: TCAD electric field and transport simulations

Contribution ID: 56

Type: **not specified**

TCAD 3

Tuesday 31 May 2022 16:00 (1 hour)

Presenters: VILLANI, Enrico Giulio (Science and Technology Facilities Council STFC (GB)); OWEN, Nick (RAL)

Session Classification: TCAD electric field and transport simulations

Contribution ID: 57

Type: **not specified**

TCAD 4

Tuesday 7 June 2022 16:00 (1 hour)

Presenters: VILLANI, Enrico Giulio (Science and Technology Facilities Council STFC (GB)); OWEN, Nick (RAL)

Session Classification: TCAD electric field and transport simulations

Contribution ID: 58

Type: **not specified**

TCAD 5

Friday 10 June 2022 12:00 (1 hour)

Presenters: VILLANI, Enrico Giulio (Science and Technology Facilities Council STFC (GB)); OWEN, Nick (RAL)

Session Classification: TCAD electric field and transport simulations

Contribution ID: 59

Type: **not specified**

TCAD 6

Tuesday 14 June 2022 16:00 (1 hour)

Presenters: VILLANI, Enrico Giulio (Science and Technology Facilities Council STFC (GB)); OWEN, Nick (RAL)

Session Classification: TCAD electric field and transport simulations

Contribution ID: **60**

Type: **not specified**

TCAD 7

Friday 17 June 2022 12:00 (1 hour)

Presenters: VILLANI, Enrico Giulio (Science and Technology Facilities Council STFC (GB)); OWEN, Nick (RAL)

Session Classification: TCAD electric field and transport simulations

Contribution ID: **61**

Type: **not specified**

TCAD 8

Tuesday 21 June 2022 16:00 (1 hour)

Presenters: VILLANI, Enrico Giulio (Science and Technology Facilities Council STFC (GB)); OWEN, Nick (RAL)

Session Classification: TCAD electric field and transport simulations

Contribution ID: **62**

Type: **not specified**

PCB design - KiCAD 1

Tuesday 24 May 2022 15:00 (1 hour)

Presenter: WEATHERILL, Daniel

Session Classification: Software tools

Contribution ID: **63**

Type: **not specified**

PCB design - KiCAD 2

Friday 27 May 2022 11:00 (1 hour)

Presenter: WEATHERILL, Daniel

Session Classification: Software tools

Contribution ID: 64

Type: **not specified**

SPICE simulations - LTSpice 1

Tuesday 31 May 2022 15:00 (1 hour)

Presenter: ZHANG, Weida

Session Classification: Software tools

Contribution ID: 65

Type: **not specified**

SPICE simulations - LTSpice 2

Tuesday 7 June 2022 15:00 (1 hour)

Presenter: ZHANG, Weida

Session Classification: Software tools

Contribution ID: **66**

Type: **not specified**

Testbeam reconstruction - Corryvreckan 1

Tuesday 21 June 2022 14:05 (1 hour)

Presenter: WRAIGHT, Kenneth Gibb (University of Glasgow (GB))

Session Classification: Software tools

Contribution ID: 67

Type: **not specified**

Testbeam reconstruction - Corryvreckan 2

Tuesday 21 June 2022 15:05 (1 hour)

Presenter: WRAIGHT, Kenneth Gibb (University of Glasgow (GB))

Session Classification: Software tools

Contribution ID: **68**

Type: **not specified**

FPGA Overview

Friday 27 May 2022 09:00 (1 hour)

Presenter: ROSE, Andrew

Session Classification: Electronics and DAQ