

1st DRD4 Collaboration Meeting

Report of Contributions

Contribution ID: 6

Type: **not specified**

DRD4 Collaboration Board Meeting (for CB members only)

Tuesday 18 June 2024 16:00 (2 hours)

Presenter: WILKINSON, Guy (University of Oxford (GB))

Session Classification: Collaboration Board (for Collaboration Board members only)

Contribution ID: 7

Type: **not specified**

WP4 meeting

Presenter: Prof. LAPINGTON, Jon (University of Leicester (GB))

Session Classification: Work Package 4 (restricted meeting to WP4 participants only)

Contribution ID: 8

Type: **not specified**

Introduction and DRD4 general news

Tuesday 18 June 2024 14:00 (10 minutes)

Presenter: FIORINI, Massimiliano (Universita e INFN, Ferrara (IT))

Session Classification: DRD4 Plenary Meeting (open to the whole DRD4 community)

Contribution ID: 9

Type: **not specified**

The RDC2 initiative in the USA

Tuesday 18 June 2024 14:15 (15 minutes)

Presenter: CAVANNA, Flavio (Fermi National Accelerator Lab. (US))

Session Classification: DRD4 Plenary Meeting (open to the whole DRD4 community)

Contribution ID: **10**

Type: **not specified**

Report on WP1 activities

Tuesday 18 June 2024 14:30 (30 minutes)

Presenter: PESTOTNIK, Rok (Jozef Stefan Institute (SI))

Session Classification: DRD4 Plenary Meeting (open to the whole DRD4 community)

Contribution ID: **11**

Type: **not specified**

Report on WP2 activities

Tuesday 18 June 2024 15:00 (30 minutes)

Presenter: LAKTINEH, Imad (Centre National de la Recherche Scientifique (FR))

Session Classification: DRD4 Plenary Meeting (open to the whole DRD4 community)

Contribution ID: **12**

Type: **not specified**

Report on WP3 activities

Thursday 20 June 2024 10:00 (30 minutes)

Presenter: CARDINALE, Roberta (INFN e Universita Genova (IT))

Session Classification: DRD4 Plenary Meeting (open to the whole DRD4 community)

Contribution ID: 13

Type: **not specified**

Introduction to Working Group 1

Wednesday 19 June 2024 09:00 (5 minutes)

Presenter: RETIERE, Fabrice

Session Classification: Working Group 1 meeting (open to the whole DRD4 community)

Contribution ID: 14

Type: **not specified**

Development of innovative PET technologies enhanced by the use of Cherenkov photons

Wednesday 19 June 2024 10:25 (20 minutes)

Presenter: SHARYY, Viatcheslav (IRFU, CEA)

Session Classification: Working Group 1 meeting (open to the whole DRD4 community)

Contribution ID: 15

Type: **not specified**

Digital SiPM overview

Wednesday 19 June 2024 09:05 (20 minutes)

Presenter: BRUSCHINI, Claudio

Session Classification: Working Group 1 meeting (open to the whole DRD4 community)

Contribution ID: 16

Type: **not specified**

SPAD optimization - the next frontier

Wednesday 19 June 2024 09:25 (20 minutes)

Presenter: RETIERE, Fabrice

Session Classification: Working Group 1 meeting (open to the whole DRD4 community)

Contribution ID: 17

Type: **not specified**

Status and Limitations of MCP-PMT Performance

Wednesday 19 June 2024 09:45 (20 minutes)

Presenter: LEHMANN, Albert (University Erlangen-Nuremberg)

Session Classification: Working Group 1 meeting (open to the whole DRD4 community)

Contribution ID: **18**

Type: **not specified**

Radio Frequency PMT

Wednesday 19 June 2024 10:05 (20 minutes)

Presenter: MARGARYAN, Amur (A. I. Alikhanyan National Science Laboratory (Yerevan Physics Institute) AANL)

Session Classification: Working Group 1 meeting (open to the whole DRD4 community)

Contribution ID: **19**

Type: **not specified**

Quantum efficiency measurements on PMTs

Wednesday 19 June 2024 11:00 (20 minutes)

Presenter: SIMONELLI, Andreino

Session Classification: Working Group 1 meeting (open to the whole DRD4 community)

Contribution ID: **20**

Type: **not specified**

Timing measurement on PMTs/SiPMs

Wednesday 19 June 2024 11:20 (20 minutes)

Presenter: MA, Lishuang

Session Classification: Working Group 1 meeting (open to the whole DRD4 community)

Contribution ID: 21

Type: **not specified**

Python framework for SiPM, APD and MPPC simulations

Wednesday 19 June 2024 11:40 (15 minutes)

Presenter: PENA RODRIGUEZ, Jesus (Bergische Universität Wuppertal)

Session Classification: Working Group 1 meeting (open to the whole DRD4 community)

Contribution ID: 22

Type: **not specified**

Investigating and optimising MCP-PMT timing, nuisance and lifetime

Wednesday 19 June 2024 11:55 (15 minutes)

Presenter: CHEN, Ping

Session Classification: Working Group 1 meeting (open to the whole DRD4 community)

Contribution ID: 23

Type: **not specified**

Precision Timing with quartz bars/fibers and segmented photodetectors

Wednesday 19 June 2024 12:25 (15 minutes)

Presenter: OZKORUCUKLU, Suat (Istanbul University (TR))

Session Classification: Working Group 1 meeting (open to the whole DRD4 community)

Contribution ID: 24

Type: **not specified**

General discussion about photodetector characterization

Wednesday 19 June 2024 12:40 (20 minutes)

Session Classification: Working Group 1 meeting (open to the whole DRD4 community)

Contribution ID: 25

Type: **not specified**

Radiation-hard SiPM

Wednesday 19 June 2024 14:00 (30 minutes)

Presenter: MUSIENKO, Yuri (University of Notre Dame (US))

Session Classification: Working Group 1 meeting (open to the whole DRD4 community)

Contribution ID: 26

Type: **not specified**

General discussion about radiation damage characterization

Wednesday 19 June 2024 14:30 (30 minutes)

Session Classification: Working Group 1 meeting (open to the whole DRD4 community)

Contribution ID: 27

Type: **not specified**

Development of low-GWP RICH radiator gasses

Wednesday 19 June 2024 15:05 (30 minutes)

Presenter: HALLEWELL, Gregory (Centre National de la Recherche Scientifique (FR))

Session Classification: Working Group 2 meeting (open to the whole DRD4 community)

Contribution ID: 28

Type: **not specified**

New RICH concept for ALADDIN

Wednesday 19 June 2024 15:35 (20 minutes)

Presenter: GRABOWSKI, Jascha Peter (University of Bonn (DE))

Session Classification: Working Group 2 meeting (open to the whole DRD4 community)

Contribution ID: 29

Type: **not specified**

Introduction to Working Group 2

Wednesday 19 June 2024 15:00 (5 minutes)

Presenter: EASO, Sajan (Science and Technology Facilities Council STFC (GB))

Session Classification: Working Group 2 meeting (open to the whole DRD4 community)

Contribution ID: **30**

Type: **not specified**

Introduction to Working Group 3

Wednesday 19 June 2024 16:10 (5 minutes)

Presenter: TESSAROTTO, Fulvio (Universita e INFN Trieste (IT))

Session Classification: Working Group 3 meeting (open to the whole DRD4 community)

Contribution ID: 31

Type: **not specified**

Strategies for reduction of greenhouse gas emission from particle detectors

Wednesday 19 June 2024 16:15 (20 minutes)

Presenter: MANDELLI, Beatrice (CERN)

Session Classification: Working Group 3 meeting (open to the whole DRD4 community)

Contribution ID: **32**

Type: **not specified**

The R&D on Aerogel for ePIC

Wednesday 19 June 2024 16:35 (20 minutes)

Presenter: CONTALBRIGO, Marco (Universita e INFN, Ferrara (IT))

Session Classification: Working Group 3 meeting (open to the whole DRD4 community)

Contribution ID: 33

Type: **not specified**

The FASTIC developments

Wednesday 19 June 2024 16:55 (20 minutes)

Presenter: GASCON, David (University of Barcelona (ES))

Session Classification: Working Group 3 meeting (open to the whole DRD4 community)

Contribution ID: 34

Type: **not specified**

Electronics development at OMEGA

Wednesday 19 June 2024 17:15 (20 minutes)

Presenter: Dr DE LA TAILLE, Christophe (OMEGA (FR))

Session Classification: Working Group 3 meeting (open to the whole DRD4 community)

Contribution ID: 35

Type: **not specified**

Introduction to Working Group 4

Wednesday 19 June 2024 17:35 (5 minutes)

Presenter: MARTINELLI, Maurizio (Universita & INFN, Milano-Bicocca (IT))

Session Classification: Working Group 4 meeting (open to the whole DRD4 community)

Contribution ID: 36

Type: **not specified**

How AI can play a role in detector design optimisation

Wednesday 19 June 2024 17:40 (20 minutes)

Presenter: DORIGO, Tommaso (Universita e INFN, Padova (IT))

Session Classification: Working Group 4 meeting (open to the whole DRD4 community)

Contribution ID: 37

Type: **not specified**

Detector Simulation in the ClearMind project

Wednesday 19 June 2024 18:00 (20 minutes)

Presenter: SHARYY, Viatcheslav (IRFU, CEA)

Session Classification: Working Group 4 meeting (open to the whole DRD4 community)

Contribution ID: **38**

Type: **not specified**

Prospects on RICH simulation with GPUs

Wednesday 19 June 2024 18:20 (20 minutes)

Presenter: EASO, Sajan (Science and Technology Facilities Council STFC (GB))

Session Classification: Working Group 4 meeting (open to the whole DRD4 community)

Contribution ID: 39

Type: **not specified**

Report on WP4 activities

Thursday 20 June 2024 09:00 (30 minutes)

Presenter: Prof. LAPINGTON, Jon (University of Leicester (GB))

Session Classification: DRD4 Plenary Meeting (open to the whole DRD4 community)

Contribution ID: 40

Type: **not specified**

Report on WG5 activities

Thursday 20 June 2024 09:30 (30 minutes)

Presenter: LEVERINGTON, Blake (Heidelberg University (DE))

Session Classification: DRD4 Plenary Meeting (open to the whole DRD4 community)

Contribution ID: 41

Type: **not specified**

Introduction to Working Group 5

Thursday 20 June 2024 10:30 (5 minutes)

Presenter: JAKOBSEN, Sune (CERN)

Session Classification: Working Group 5 meeting (open to the whole DRD4 community)

Contribution ID: 42

Type: **not specified**

Transition radiation detector developments

Thursday 20 June 2024 10:35 (30 minutes)

Presenter: Dr ROMANIOUK, Anatoli (University of Innsbruck (AT))

Session Classification: Working Group 5 meeting (open to the whole DRD4 community)

Contribution ID: 43

Type: **not specified**

MC simulation of TRDs based on GaAs sensors: tools and status

Thursday 20 June 2024 11:05 (20 minutes)

Presenter: TIKHOMIROV, Vladimir (Russian Academy of Sciences (RU))

Session Classification: Working Group 5 meeting (open to the whole DRD4 community)

Contribution ID: 44

Type: **not specified**

Characterization of pixelated high-Z sensors for X- and gamma-ray detection

Thursday 20 June 2024 11:25 (20 minutes)

Presenter: BERGMANN, Benedikt Ludwig (Czech Technical University in Prague (CZ))

Session Classification: Working Group 5 meeting (open to the whole DRD4 community)

Contribution ID: 45

Type: **not specified**

Introduction to Working Group 6

Thursday 20 June 2024 11:45 (10 minutes)

Presenter: OZKORUCUKLU, Suat (Istanbul University (TR))

Session Classification: Working Group 6 meeting (open to the whole DRD4 community)

Contribution ID: 46

Type: **not specified**

Report from the CB Chair

Thursday 20 June 2024 11:55 (25 minutes)

Presenter: WILKINSON, Guy (University of Oxford (GB))

Session Classification: DRD4 Plenary Meeting (open to the whole DRD4 community)

Contribution ID: 47

Type: **not specified**

General discussion on: common facilities, transversal activities, test-beams

Thursday 20 June 2024 12:20 (30 minutes)

Presenter: FIORINI, Massimiliano (Universita e INFN, Ferrara (IT))

Session Classification: DRD4 Plenary Meeting (open to the whole DRD4 community)

Contribution ID: 48

Type: **not specified**

Conclusive remarks

Thursday 20 June 2024 12:50 (10 minutes)

Session Classification: DRD4 Plenary Meeting (open to the whole DRD4 community)

Contribution ID: 49

Type: **not specified**

Test and characterisation of Large Area MCPs

Wednesday 19 June 2024 12:10 (15 minutes)

Presenter: OLIVA, Federica (The University of Edinburgh (GB))

Session Classification: Working Group 1 meeting (open to the whole DRD4 community)

Contribution ID: 50

Type: **not specified**

Olav Ullaland

Tuesday 18 June 2024 14:10 (5 minutes)

Presenter: WILKINSON, Guy (University of Oxford (GB))

Session Classification: DRD4 Plenary Meeting (open to the whole DRD4 community)

Contribution ID: 51

Type: **not specified**

Social dinner: directions

Wednesday 19 June 2024 19:00 (20 minutes)