

PROVA2- Open Symposium on the European Strategy for Particle Physics

Report of Contributions

Contribution ID: 1

Type: **not specified**

Parallel Session I-IV (Parallel 1)

Contribution ID: 2

Type: **not specified**

Parallel Session I

Contribution ID: 3

Type: **not specified**

Parallel Session I-IV (Parallel 2)

Contribution ID: 4

Type: **not specified**

Paralell Session I-IV (Parallel 3)

Contribution ID: 5

Type: **not specified**

Parallel Session I-IV (Parallel 4)

Contribution ID: 6

Type: **not specified**

Parallel Session V - Flavor

Session Classification: Parallel 1 - Electroweak Physics

Contribution ID: 7

Type: **not specified**

Parallel Session I - Electroweak Physics

Session Classification: Parallel 1 - Electroweak Physics (part II)

Contribution ID: 8

Type: **not specified**

Parallel Session II - Accelerator Technologies

Session Classification: Parallel 1 - Electroweak Physics (part II)

Contribution ID: 9

Type: **not specified**

Parallel Session III - Neutrinos and Cosmic Messengers

Session Classification: Parallel 1 - Electroweak Physics (part II)

Contribution ID: **10**

Type: **not specified**

Parallel Session V - Flavor

Session Classification: p-11.15-13.00

Contribution ID: **11**

Type: **not specified**

Parallel Session I - Electroweak Physics

Convener:

Monica Dunford (Heidelberg University)

Jorge de Blas (University of Granada)

Session Classification: p-11.15-13.00

Contribution ID: 12

Type: **not specified**

Parallel Session II - Accelerator Technologies

Session Classification: Parallel 1 - Electroweak Physics

Contribution ID: 14

Type: **not specified**

Parallel Session IX - Computing

Session Classification: Parallel 6 -Detector Technologies

Contribution ID: **15**

Type: **not specified**

Parallel Session V

Session Classification: Parallel 6 -Detector Technologies

Contribution ID: **16**

Type: **not specified**

Parallel Session 6 - DETECTOR TECHNOLOGIES

Monday, 30 June 2025 15:40 (1 minute)

Session Classification: Parallel 6 -Detector Technologies

Contribution ID: 17

Type: **not specified**

Parallel Session VII - BSM

Session Classification: Parallel 6 -Detector Technologies

Contribution ID: **18**

Type: **not specified**

Parallel Session VIII - Dark matter/Dark Sector

Session Classification: Parallel 6 -Detector Technologies

Contribution ID: **19**

Type: **not specified**

Parallel Session IX - Computing

Session Classification: Parallel 6 -Detector Technologies

Contribution ID: **20**

Type: **not specified**

Parallel Session V

Session Classification: Parallel 6 -Detector Technologies

Contribution ID: 21

Type: **not specified**

Parallel Session VI - Detector Technologies

Session Classification: Parallel 6 -Detector Technologies

Contribution ID: 22

Type: **not specified**

Parallel Session VII - BSM

Session Classification: Parallel 6 -Detector Technologies

Contribution ID: 23

Type: **not specified**

Parallel Session VIII - Dark matter/Dark Sector

Session Classification: Parallel 6 -Detector Technologies

Contribution ID: 24

Type: **not specified**

Computing in HEP: how we got here and needs for the next decade

Thursday, 3 July 2025 16:45 (30 minutes)

Presenter: BOCCALI (INFN-PISA), Tommaso (Istituto Nazionale di Fisica Nucleare)

Session Classification: Computing

Contribution ID: 25

Type: **not specified**

HEP Computing needs and ideas for the next generation initiatives

Thursday, 3 July 2025 17:15 (30 minutes)

Presenter: KERSEVAN (JSI LJUBLJANA), Borut (JSI Ljubljana)

Session Classification: Computing

Contribution ID: 26

Type: **not specified**

Discussion

Thursday, 3 July 2025 17:45 (45 minutes)

Presenter: JEZEQUEL (LAPP ANNECY) - DISCUSSION LEADER, Stephane (LAPP Annecy)

Session Classification: Computing

Contribution ID: 27

Type: **not specified**

Conceptual challenges of collider proposals

Tuesday, 1 July 2025 16:45 (30 minutes)

Primary author: ARDUINI (CERN), Gianluigi (CERN)

Presenter: ARDUINI (CERN), Gianluigi (CERN)

Session Classification: Accelerator Technologies

Contribution ID: 28

Type: **not specified**

The technology challenges

Tuesday, 1 July 2025 17:15 (30 minutes)

Presenter: BURROWS (OXFORD UNIVERSITY), Philip (John Adams Institute, Oxford University)

Session Classification: Accelerator Technologies

Contribution ID: 29

Type: **not specified**

Non-collider high intensity concepts

Tuesday, 1 July 2025 17:45 (30 minutes)

Presenter: ROGERS (STFC, UK), Chris (RAL)

Session Classification: Accelerator Technologies

Contribution ID: **30**

Type: **not specified**

Discussion

Tuesday, 1 July 2025 18:15 (1 hour)

Tor Raubenheimer (discussion leader)

Presenter: RAUBENHEIMER (SLAC) - DISCUSSION LEADER, Tor (SLAC)

Session Classification: Accelerator Technologies

Contribution ID: 31

Type: **not specified**

The Electroweak/Higgs physics landscape beyond the LHC: Open questions and exploration at future colliders

Wednesday, 2 July 2025 09:00 (30 minutes)

Presenter: DUNFORD (UNIVERSITY OF HEIDELBERG), Monica (Heidelberg University)

Session Classification: Electroweak Physics

Contribution ID: 32

Type: **not specified**

Characterisation of the Electroweak/Higgs sectors at future colliders: Comparative assessment

Wednesday, 2 July 2025 09:30 (30 minutes)

Presenter: DE BLAS (UNIVERSITY OF GRANADA), Jorge (University of Granada)

Session Classification: Electroweak Physics

Contribution ID: 33

Type: **not specified**

Discussion

Wednesday, 2 July 2025 10:00 (45 minutes)

Florenca Canelli (discussion leader)

Presenter: CANELLI (UNIVERSITY OF ZURICH) - DISCUSSION LEADER, Florenca (University of Zurich)

Session Classification: Electroweak Physics

Contribution ID: 34

Type: **not specified**

Open questions and experimental prospects: precision QCD & internal structure of protons and nuclei

Wednesday, 2 July 2025 11:15 (30 minutes)

Presenter: DIACONU (CPPM), Cristinel (Aix-Marseille Université et CNRS/IN2P3)

Session Classification: Strong Interactions

Contribution ID: 35

Type: **not specified**

Open questions and experimental prospects: hot and dense QCD & QCD connections to hadronic, nuclear and astrophysics

Wednesday, 2 July 2025 11:45 (30 minutes)

Presenter: DAINESE (INFN-PADUA), Andrea (Istituto Nazionale di Fisica Nucleare)

Session Classification: Strong Interactions

Contribution ID: 36

Type: **not specified**

Discussion

Wednesday, 2 July 2025 12:15 (45 minutes)

Sven-Olaf Moch (discussion leader)

Presenter: MOCH (UNIVERSITY OF HAMBURG) - DISCUSSION LEADER, Sven-Olaf (Universität Hamburg)

Session Classification: Strong Interactions

Contribution ID: 37

Type: **not specified**

Status and open questions in flavour physics

Wednesday, 2 July 2025 14:30 (30 minutes)

Presenter: ISIDORI (UNIVERSITY OF ZURICH), Gino

Session Classification: Flavour physics

Contribution ID: **38**

Type: **not specified**

Experimental programs to address open issues in flavour physics

Wednesday, 2 July 2025 15:00 (30 minutes)

Presenter: SCHUNE (IJCLAB PARIS), Marie-Helene (IJCLab CNRS/Université Paris-Saclay (FR))

Session Classification: Flavour physics

Contribution ID: 39

Type: **not specified**

Discussion

Wednesday, 2 July 2025 15:30 (45 minutes)

Tim Gershon (discussion leader)

Presenter: GERSHON (UNIVERSITY OF WARWICK) - DISCUSSION LEADER, Tim (University of Warwick)

Session Classification: Flavour physics

Contribution ID: 40

Type: **not specified**

Status and open questions in the search for Physics Beyond the Standard Model

Thursday, 3 July 2025 09:00 (30 minutes)

Presenter: MALTONI (LOUVAIN, BOLOGNA), Fabio (Istituto Nazionale di Fisica Nucleare)

Session Classification: BSM physics

Contribution ID: 41

Type: **not specified**

Experimental programs to address open issues in BSM physics

Thursday, 3 July 2025 09:30 (30 minutes)

Presenter: GONZALEZ SUAREZ (UPPSALA UNIVERSITY), Rebeca (Uppsala University (SE))

Session Classification: BSM physics

Contribution ID: 42

Type: **not specified**

Discussion

Thursday, 3 July 2025 10:00 (45 minutes)

Maurizio Pierini (discussion leader)

Presenter: PIERINI (CERN) - DISCUSSION LEADER, Maurizio (CERN)

Session Classification: BSM physics

Contribution ID: 43

Type: **not specified**

Status and open questions in dark matter and dark sector physics

Thursday, 3 July 2025 11:15 (30 minutes)

Presenter: MCCULLOUGH (CERN), Matthew (CERN)

Session Classification: Dark Matter / dark sector

Contribution ID: 44

Type: **not specified**

Experimental programs to address open issues in dark matter and dark sector physics

Thursday, 3 July 2025 11:45 (30 minutes)

Presenter: MONROE (UNIVERSITY OF OXFORD), Jocelyn (University of Oxford)

Session Classification: Dark Matter / dark sector

Contribution ID: 45

Type: **not specified**

Discussion

Thursday, 3 July 2025 12:15 (45 minutes)

Caterina Doglinoni (discussion leader)

Presenter: DOGLIONI (UNIVERSITY OF MANCHESTER) - DISCUSSION LEADER, Caterina (University of Manchester)

Session Classification: Dark Matter / dark sector

Contribution ID: 46

Type: **not specified**

Tools for Discovery –Instrumentation Requirements for Future Projects

Thursday, 3 July 2025 14:30 (30 minutes)

Presenter: HUSEMANN - KIT KARLSRUHE, Ulrich (Karlsruhe Institute of Technology)

Session Classification: Detector Technologies

Contribution ID: 47

Type: **not specified**

From ECFA Detector Roadmap to DRD Collaborations and beyond

Thursday, 3 July 2025 15:00 (30 minutes)

Presenter: BERGAUER (HEPHY VIENNA), Thomas (HEPHY Vienna)

Session Classification: Detector Technologies

Contribution ID: 48

Type: **not specified**

Discussion

Thursday, 3 July 2025 15:30 (45 minutes)

Daniela Bortoletto (discussion leader)

Presenter: BORTOLETTO (UNIVERSITY OF OXFORD) -DISCUSSION LEADER, Daniela (University of Oxford)

Session Classification: Detector Technologies

Contribution ID: 49

Type: **not specified**

Discussion

Wednesday, 2 July 2025 17:45 (45 minutes)

Presenter: MEZZETTO (INFN) - DISCUSSION LEADER, Mauro (INFN-PD)

Session Classification: Neutrinos and Cosmic Messengers

Contribution ID: **50**

Type: **not specified**

Official Opening

Monday, 30 June 2025 09:00 (35 minutes)

Session Classification: Opening Session

Contribution ID: 51

Type: **not specified**

Implementation of the last Strategy

Monday, 30 June 2025 09:35 (35 minutes)

Presenter: GIANOTTI (CERN), Fabiola (CERN)

Session Classification: Opening Session

Contribution ID: 52

Type: **not specified**

Outstanding questions in particle physics

Monday, 30 June 2025 10:10 (35 minutes)

Presenter: LAENEN (NIKHEF), Eric (Nikhef/UvAe)

Session Classification: Opening Session

Contribution ID: 54

Type: **not specified**

Parallel IV - Strong Interactions

Session Classification: Parallel 1 - Electroweak Physics (part II)

Contribution ID: 55

Type: **not specified**

Status and plans for the realisation of the Circular Electron Positron Collider (CEPC) and other large-scale projects in China

Tuesday, 1 July 2025 14:30 (35 minutes)

Presenter: WANG, Yifang (Institute of High Energy Physics)

Session Classification: Status in China, Japan, US

Contribution ID: 56

Type: **not specified**

Discussion

Session Classification: Status in China, Japan, US

Contribution ID: 57

Type: **not specified**

Status and plans for the realisation of the International Linear Collider (ILC) and other large-scale projects in Japan

Tuesday, 1 July 2025 15:05 (35 minutes)

Presenter: ASAI (KEK), Shoji (U-Tokyo)

Session Classification: Status in China, Japan, US

Contribution ID: **58**

Type: **not specified**

Discussion

Session Classification: Status in China, Japan, US

Contribution ID: 59

Type: **not specified**

Large-scale particle physics projects in the US and plans for participation in projects outside

Tuesday, 1 July 2025 15:40 (35 minutes)

Presenter: MURAYAMA (BERKELEY), Hitoshi (UC Berkeley, LBNL, Kavli IPMU Tokyo)

Session Classification: Status in China, Japan, US

Contribution ID: **60**

Type: **not specified**

Discussion

Session Classification: Status in China, Japan, US

Contribution ID: **61**

Type: **not specified**

Open questions in neutrino physics and related BSM

Wednesday, 2 July 2025 16:45 (15 minutes)

Presenter: HERNÁNDEZ (UNIVERSITY OF VALENCIA), Pilar (University of Valencia)

Session Classification: Neutrinos and Cosmic Messengers

Contribution ID: **62**

Type: **not specified**

Measurements of neutrino properties in the SM and beyond

Wednesday, 2 July 2025 17:00 (25 minutes)

Presenter: BOLOGNESI (CEA SACLAY), Sara (CEA Saclay)

Session Classification: Neutrinos and Cosmic Messengers

Contribution ID: **63**

Type: **not specified**

Cosmic Messengers for particle physics

Wednesday, 2 July 2025 17:25 (20 minutes)

Presenter: DOMCKE (CERN), Valerie

Session Classification: Neutrinos and Cosmic Messengers

Contribution ID: **64**

Type: **not specified**

Discussion

Session Classification: Parallel 1 - Electroweak Physics

Contribution ID: 65

Type: **not specified**

FCC-ee (incl. common infrastructure)

Tuesday, 1 July 2025 09:00 (40 minutes)

Presenter: BENEDIKT (CERN), Michael (CERN)

Session Classification: Large-scale accelerator projects at CERN, part I

Contribution ID: **66**

Type: **not specified**

FCC-hh

Tuesday, 1 July 2025 09:40 (30 minutes)

Presenter: ZIMMERMANN (CERN), Frank (CERN)

Session Classification: Large-scale accelerator projects at CERN, part I

Contribution ID: 67

Type: **not specified**

A Linear Collider at CERN (ILC, CLIC)

Tuesday, 1 July 2025 10:10 (40 minutes)

Presenter: STAPNES (CERN), Steinar (CERN)

Session Classification: Large-scale accelerator projects at CERN, part I

Contribution ID: **68**

Type: **not specified**

LEP3

Tuesday, 1 July 2025 11:20 (25 minutes)

Presenter: VIRDEE (IMPERIAL COLLEGE LONDON), Tejinder

Session Classification: Large-scale accelerator projects at CERN, part II

Contribution ID: **69**

Type: **not specified**

LHeC

Tuesday, 1 July 2025 11:45 (25 minutes)

Presenter: D'HONDT (NIKHEF), Jorgen (Nikhef)

Session Classification: Large-scale accelerator projects at CERN, part II

Contribution ID: 70

Type: **not specified**

Muon Collider

Tuesday, 1 July 2025 12:10 (25 minutes)

Presenter: SCHULTE (CERN), Daniel

Session Classification: Large-scale accelerator projects at CERN, part II

Contribution ID: 71

Type: **not specified**

Linear Collider Vision (C3, HALHF, wake-field acceleration)

Tuesday, 1 July 2025 12:35 (25 minutes)

Presenter: LIST DESY), Jenny

Session Classification: Large-scale accelerator projects at CERN, part II

Contribution ID: 72

Type: **not specified**

National Inputs

Friday, 4 July 2025 09:00 (30 minutes)

Presenter: ALEXA (BUKAREST), Calin

Session Classification: Overarching topics (by ESG working groups)

Contribution ID: 73

Type: **not specified**

Role of national labs, strategy implementation

Friday, 4 July 2025 09:30 (25 minutes)

Presenter: STOCCHI (IJCLAB), Achille

Session Classification: Overarching topics (by ESG working groups)

Contribution ID: 74

Type: **not specified**

Relations with other fields of physics

Friday, 4 July 2025 09:55 (25 minutes)

Presenter: KARLINER (TEL AVIV), Marek

Session Classification: Overarching topics (by ESG working groups)

Contribution ID: 75

Type: **not specified**

Communication, outreach, career aspects

Friday, 4 July 2025 10:20 (25 minutes)

Presenter: VAN MECHELEN (UNIVERSITEIT ANTWERPEN), Pierre (Universiteit Antwerpen)

Session Classification: Overarching topics (by ESG working groups)

Contribution ID: 76

Type: **not specified**

ECR perspectives

Friday, 4 July 2025 10:45 (30 minutes)

Presenters: DIMITRIADI (KTH), Christina; EINHAUS (KIT KARLSRUHE), Ulrich

Session Classification: Overarching topics (by ESG working groups)

Contribution ID: 77

Type: **not specified**

Sustainability

Friday, 4 July 2025 11:45 (25 minutes)

Presenter: LESIAK (KRAKOW), Tadeusz

Session Classification: Overarching topics (cont.)

Contribution ID: 78

Type: **not specified**

Knowledge and technology transfer

Friday, 4 July 2025 12:10 (25 minutes)

Presenter: T.B.D.

Session Classification: Overarching topics (cont.)

Contribution ID: 79

Type: **not specified**

Project comparison (first attempt)

Friday, 4 July 2025 12:35 (30 minutes)

Presenter: ARDUINI (CERN), Gianluigi (CERN)

Session Classification: Overarching topics (cont.)

Contribution ID: **80**

Type: **not specified**

Lessons from current ete- colliders (i.e. SuperKEKb, DAFNE...)

Monday, 30 June 2025 11:16 (24 minutes)

Presenter: ONISHI (KEK), YUKIYOSHI (KEK)

Session Classification: Parallel 2 - Accelerator Technologies

Contribution ID: **81**

Type: **not specified**

Lessons from linear collider test facilities

Monday, 30 June 2025 11:40 (25 minutes)

Presenter: FAUS-GOLDE (IJCLAB), Angeles

Session Classification: Parallel 2 - Accelerator Technologies

Contribution ID: 82

Type: **not specified**

Environmental impact considerations for Accelerator Facilities

Monday, 30 June 2025 12:05 (30 minutes)

Presenter: MAKSYM, Titov

Session Classification: Parallel 2 - Accelerator Technologies

Contribution ID: **83**

Type: **not specified**

Parallel 2 - Accelerator Technologies

Presenter: MUELLER (KIT) - CONVENER, Anke-Susanne

Session Classification: Parallel 2 - Accelerator Technologies

Contribution ID: **84**

Type: **not specified**

Normal Conducting RF and F powering

Monday, 30 June 2025 12:35 (25 minutes)

Presenter: WUENSCH (CERN), Walter (CERN)

Session Classification: Parallel 2 - Accelerator Technologies

Contribution ID: 85

Type: **not specified**

Parallel 2 - ACCELERATOR TECHNOLOGIES (Part 2)

Monday, 30 June 2025 14:00 (1 minute)

Presenter: LOSITO (CERN) - CONVENER, Roberto

Session Classification: Parallel 2 - Accelerator Technologies (part II)

Contribution ID: **86**

Type: **not specified**

Superconducting RF

Monday, 30 June 2025 14:01 (29 minutes)

Presenter: MCINTOSH (STFC), Peter (STFC)

Session Classification: Parallel 2 - Accelerator Technologies (part II)

Contribution ID: 87

Type: **not specified**

High-Field magnets

Monday, 30 June 2025 14:30 (30 minutes)

Presenter: AUCHMANN (PSI), Bernhard (PSI/CERN)

Session Classification: Parallel 2 - Accelerator Technologies (part II)

Contribution ID: **88**

Type: **not specified**

High gradient wakefield accelerators (i.e. laser- and beam-driven)

Monday, 30 June 2025 15:00 (30 minutes)

Presenter: TURNER (CERN), Marlene (CERN)

Session Classification: Parallel 2 - Accelerator Technologies (part II)

Contribution ID: **89**

Type: **not specified**

Technologies for Accelerator-based experiments

Session Classification: Parallel 6 -Detector Technologies

Contribution ID: **90**

Type: **not specified**

Detector concepts of future HET factories

Monday, 30 June 2025 15:42 (18 minutes)

Presenter: PALLA (INFN-PISA), Fabrizio (Istituto Nazionale di Fisica Nucleare)

Session Classification: Parallel 6 -Detector Technologies

Contribution ID: 91

Type: **not specified**

Semiconductor Technologies for Vertex Detector, Silicon Tracker and Timing

Monday, 30 June 2025 16:00 (20 minutes)

Presenter: DANIELA BORTOLETTO, Daniela (University of Oxford)

Session Classification: Parallel 6 -Detector Technologies

Contribution ID: 92

Type: **not specified**

Gas Detectors as Main Tracker and Muons Chambers

Monday, 30 June 2025 16:20 (20 minutes)

Presenter: BRESSLER (CERN), Shikma (CERN)

Session Classification: Parallel 6 -Detector Technologies

Contribution ID: 93

Type: **not specified**

Calorimeters + RICH Technologies for HEP experiments

Monday, 30 June 2025 16:40 (20 minutes)

Presenter: GAUDIO (INFN-PAVIA), Gabriella (Istituto Nazionale di Fisica Nucleare)

Session Classification: Parallel 6 -Detector Technologies

Contribution ID: 94

Type: **not specified**

Parallel 6 - DETECTOR TECHNOLOGIES (part II)

Monday, 30 June 2025 17:20 (1 minute)

Session Classification: Parallel 6 -Detector Technologies

Contribution ID: 95

Type: **not specified**

Beyond accelerators and emerging technologies

Session Classification: Parallel 6 -Detector Technologies

Contribution ID: 96

Type: **not specified**

Technologies for Neutrino and Dark Matter Experiments

Monday, 30 June 2025 17:22 (18 minutes)

Presenter: GIL-BOTELLA (CIEMAT), Inés (CIEMAT)

Session Classification: Parallel 6 -Detector Technologies

Contribution ID: 97

Type: **not specified**

Quantum and emerging technologies

Monday, 30 June 2025 17:40 (25 minutes)

Presenter: DOSER (CERN), Michael (CERN)

Session Classification: Parallel 6 -Detector Technologies

Contribution ID: **98**

Type: **not specified**

Discussion extra

Session Classification: Parallel 6 -Detector Technologies

Contribution ID: 99

Type: **not specified**

Electronics, TDAQ and the ecosystem for instrumentation

Session Classification: Parallel 6 -Detector Technologies

Contribution ID: **100**

Type: **not specified**

ASICs: Lesson Learnt & Perspectives

Monday, 30 June 2025 18:06 (19 minutes)

Presenter: SIMON (KARLSRUHE INSTITUTE OF TECHNOLOGY), Frank

Session Classification: Parallel 6 -Detector Technologies

Contribution ID: **101**

Type: **not specified**

TDAQ Perspectives: triggerless DAQ, intelligence on frontend, AI trigger

Monday, 30 June 2025 18:25 (25 minutes)

Presenter: AARRESTAD (ETH ZURICH), Thea (ETH Zurich)

Session Classification: Parallel 6 -Detector Technologies

Contribution ID: **102**

Type: **not specified**

Optimizing the environment for detector R&D: industry involvement, person-power and resources

Monday, 30 June 2025 18:50 (25 minutes)

Presenter: DEMARTEAU (OAK RIDGE NATIONAL LABORATORY), Marcel

Session Classification: Parallel 6 -Detector Technologies

Contribution ID: **103**

Type: **not specified**

prova

Session Classification: Parallel 1 - Electroweak Physics

Contribution ID: **104**

Type: **not specified**

talk 1

Session Classification: Parallel 1 - Electroweak Physics

Contribution ID: **105**

Type: **not specified**

talk 2

Session Classification: Parallel 1 - Electroweak Physics

Contribution ID: **106**

Type: **not specified**

Parallel 8 - DARK MATTER/DARK SECTOR

Monday, 30 June 2025 15:40 (1 minute)

Session Classification: Parallel 8 - Dark matter/Dark Sector

Contribution ID: **107**

Type: **not specified**

Overview and Methodology of Working Group

Monday, 30 June 2025 15:41 (24 minutes)

Presenter: EMA (CERN), Yohei

Session Classification: Parallel 8 - Dark matter/Dark Sector

Contribution ID: **108**

Type: **not specified**

Ultralight Dark Matter and Dark Sectors

Monday, 30 June 2025 16:05 (25 minutes)

Presenter: VOGEL (DORTMUND), Julia

Session Classification: Parallel 8 - Dark matter/Dark Sector

Contribution ID: **109**

Type: **not specified**

Accelerator-based probes

Monday, 30 June 2025 16:31 (24 minutes)

Presenter: OVCHYNNIKOV (CERN), Maksym

Session Classification: Parallel 8 - Dark matter/Dark Sector

Contribution ID: **110**

Type: **not specified**

Parallel 8 - DARK MATTER/DARK SECTOR

Monday, 30 June 2025 17:20 (1 minute)

Session Classification: Parallel 8 - Dark matter/Dark Sector

Contribution ID: **111**

Type: **not specified**

Cosmological aspects

Monday, 30 June 2025 17:45 (25 minutes)

Presenter: PRADLER (UNIVERSITY OF VIENNA), Josef

Session Classification: Parallel 8 - Dark matter/Dark Sector

Contribution ID: **112**

Type: **not specified**

Direct and Indirect Detection

Monday, 30 June 2025 18:11 (24 minutes)

Presenter: POLLMAN (NIKHEF), Tina

Session Classification: Parallel 8 - Dark matter/Dark Sector

Contribution ID: **113**

Type: **not specified**

Collider and Interplay with major future facilities

Monday, 30 June 2025 18:35 (25 minutes)

Presenter: D'ONOFRIO (LIVERPOOL), Michela

Session Classification: Parallel 8 - Dark matter/Dark Sector

Contribution ID: **114**

Type: **not specified**

Direct detection landscape

Monday, 30 June 2025 17:22 (23 minutes)

Presenter: AGNES (GSSI), Paolo (GSSI)

Session Classification: Parallel 8 - Dark matter/Dark Sector

Contribution ID: 115

Type: **not specified**

Parallel 2 - ACCELERATOR TECHNOLOGIES

Monday, 30 June 2025 11:15 (1 minute)

Presenter: MUELLER (KIT) - CONVENER, Anke-Susanne

Session Classification: Parallel 2 - Accelerator Technologies

Contribution ID: **116**

Type: **not specified**

Parallel 4 - STRONG INTERACTIONS

Monday, 30 June 2025 11:15 (1 minute)

Session Classification: Parallel 4 - Strong Interactions

Contribution ID: **117**

Type: **not specified**

Introduction: Strong Interactions WG and ESPP inputs

Monday, 30 June 2025 11:16 (14 minutes)

Presenter: SIGNORILE SIGNORILE (INFN), Chiara

Session Classification: Parallel 4 - Strong Interactions

Contribution ID: **118**

Type: **not specified**

Precision QCD: state-of-the-art and prospects with future facilities

Monday, 30 June 2025 11:30 (45 minutes)

Presenter: D'ENTERRIA (CERN), David (CERN)

Session Classification: Parallel 4 - Strong Interactions

Contribution ID: **119**

Type: **not specified**

QCD input to cosmic rays and compact stellar objects: open questions and next challenges

Monday, 30 June 2025 12:15 (22 minutes)

Presenter: MANTOVANI SARTI (TUM), Valentina

Session Classification: Parallel 4 - Strong Interactions

Contribution ID: **120**

Type: **not specified**

Prospects for exotic hadron physics

Monday, 30 June 2025 12:37 (23 minutes)

Presenters: GERARDIN (AIX-MARSEILLE UNIVERSITY), Antoine; PAPPAGALLO (INFN), Marco (INFN & University of Bari)

Session Classification: Parallel 4 - Strong Interactions

Contribution ID: **121**

Type: **not specified**

Parallel 4- STRONG INTERACTIONS (part II)

Monday, 30 June 2025 14:00 (1 minute)

Session Classification: Parallel 4- Strong Interactions (part II)

Contribution ID: 122

Type: **not specified**

Partonic dynamics in protons and nuclei: prospects with future measurements at HL-LHC and electron-hadron colliders

Monday, 30 June 2025 14:01 (44 minutes)

Presenter: ARMESTO (IGFAE-COMPOSTELA UNIV.), Néstor (Universidade de Santiago de Compostela)

Session Classification: Parallel 4- Strong Interactions (part II)

Contribution ID: **123**

Type: **not specified**

Hot and dense QCD: future prospects in heavy-ion collisions

Monday, 30 June 2025 14:45 (45 minutes)

Presenter: WIEDEMANN (CERN), Urs Wiedemann (CERN PH TH)

Session Classification: Parallel 4- Strong Interactions (part II)

Contribution ID: **124**

Type: **not specified**

Parallel 9 - COMPUTING

Monday, 30 June 2025 15:40 (1 minute)

Presenter: BOCCALI (INFN) - CONVENER, Tommaso (Istituto Nazionale di Fisica Nucleare)

Session Classification: Parallel 9 -Computing

Contribution ID: **125**

Type: **not specified**

Summary from WG AI

Monday, 30 June 2025 15:42 (8 minutes)

Presenter: KASIECZKA (HAMBURG UNIVERSITY), Gregor (Universität Hamburg)

Session Classification: Parallel 9 -Computing

Contribution ID: 126

Type: **not specified**

AI for fast inference in real-time systems: status and future perspectives

Monday, 30 June 2025 15:50 (10 minutes)

Presenter: AARRESTAD (ETH ZURICH), Thea (ETH Zurich)

Session Classification: Parallel 9 -Computing

Contribution ID: **127**

Type: **not specified**

Summary from WG Facilities

Monday, 30 June 2025 16:01 (9 minutes)

Presenter: GIRONE (CERN), Maria (CERN)

Session Classification: Parallel 9 -Computing

Contribution ID: **128**

Type: **not specified**

HPC Integration in HEP

Monday, 30 June 2025 16:10 (10 minutes)

Presenter: FILIPCIC (JSI), Andrej

Session Classification: Parallel 9 -Computing

Contribution ID: **129**

Type: **not specified**

Sustainable Computing Facilities through Industry Collaboration

Monday, 30 June 2025 16:20 (10 minutes)

Presenter: SUAREZ (SIPEARL), Estela

Session Classification: Parallel 9 -Computing

Contribution ID: **130**

Type: **not specified**

Summary from WG Software

Monday, 30 June 2025 16:31 (9 minutes)

Presenter: SKIDMORE (UNIVERSITY OF WARWICK), Nicole (University of Warwick)

Session Classification: Parallel 9 -Computing

Contribution ID: **131**

Type: **not specified**

HEP software: past, status and prospects

Monday, 30 June 2025 16:40 (10 minutes)

Presenter: RODRIGUES (UNIVERSITY OF LIVERPOOL), Eduardo (University of Liverpool)

Session Classification: Parallel 9 -Computing

Contribution ID: **132**

Type: **not specified**

Key4HEP and Future collider software

Monday, 30 June 2025 16:50 (10 minutes)

Presenter: REICHENBACH (CERN / UNIVERSITY OF BONN), Leonhard (CERN / University of Bonn)

Session Classification: Parallel 9 -Computing

Contribution ID: 133

Type: **not specified**

Parallel 9 - COMPUTING

Monday, 30 June 2025 17:20 (1 minute)

Presenter: KERSEVAN (JSI - LJUBLJANA UNIVERSITY) - CONVENER, Borut

Session Classification: Parallel 9 -Computing

Contribution ID: 134

Type: **not specified**

Summary from WG Modelling

Monday, 30 June 2025 17:22 (8 minutes)

Presenter: LANGE (PRINCETON UNIVERSITY), David (Princeton University)

Session Classification: Parallel 9 -Computing

Contribution ID: 135

Type: **not specified**

Estimating FCC computational needs from near term through the 2040s

Monday, 30 June 2025 17:30 (10 minutes)

Presenter: GANIS (CERN), Gerardo (CERN)

Session Classification: Parallel 9 -Computing

Contribution ID: 136

Type: **not specified**

Including energy awareness in computational needs of future experiments

Monday, 30 June 2025 17:40 (10 minutes)

Presenter: DOGLIONI (UNIVERSITY OF MANCHESTER), Caterina (University of Manchester)

Session Classification: Parallel 9 -Computing

Contribution ID: **137**

Type: **not specified**

Summary from WG New Technologies

Monday, 30 June 2025 17:51 (9 minutes)

Presenter: VALLECORSA (CERN), Sofia (CERN)

Session Classification: Parallel 9 -Computing

Contribution ID: **138**

Type: **not specified**

Quantum Inspired ML on FPGA

Monday, 30 June 2025 18:00 (10 minutes)

Presenter: ZANETTI (INFN), Marco (Istituto Nazionale di Fisica Nucleare)

Session Classification: Parallel 9 -Computing

Contribution ID: **139**

Type: **not specified**

Hybrid algorithms

Monday, 30 June 2025 18:10 (10 minutes)

Presenter: AZZAM (QILIMANJARO), Ameer

Session Classification: Parallel 9 -Computing

Contribution ID: **140**

Type: **not specified**

Discussion

Monday, 30 June 2025 18:20 (55 minutes)

Session Classification: Parallel 9 -Computing

Contribution ID: **141**

Type: **not specified**

Theoretical landscape

Monday, 30 June 2025 11:16 (15 minutes)

Presenter: ISIDORI (UNIVERSITY OF ZURICH), Gino (University of Zurich)

Session Classification: Parallel 5 –Flavor

Contribution ID: **142**

Type: **not specified**

Experimental landscape

Monday, 30 June 2025 11:31 (15 minutes)

Presenter: SCHUNE (IJCLAB CNRS/UNIVERSITÉ PARIS-SACLAY), Marie-Helene (IJCLab CNRS/Université Paris-Saclay (FR))

Session Classification: Parallel 5 –Flavor

Contribution ID: 143

Type: **not specified**

Future prospects from Lattice QCD

Monday, 30 June 2025 11:46 (20 minutes)

Presenter: JUTTNER, A.

Session Classification: Parallel 5 –Flavor

Contribution ID: **144**

Type: **not specified**

Rare decays of b and c quarks

Monday, 30 June 2025 12:06 (30 minutes)

Presenter: CALVI (INFN), Marta (Istituto Nazionale di Fisica Nucleare)

Session Classification: Parallel 5 –Flavor

Contribution ID: **145**

Type: **not specified**

Tau physics

Monday, 30 June 2025 12:36 (24 minutes)

Presenter: SERRANO (IN2P3), Justine (LAL)

Session Classification: Parallel 5 –Flavor

Contribution ID: **146**

Type: **not specified**

Parallel 7 –BSM

Monday, 30 June 2025 15:40 (1 minute)

Presenter: GONZALEZ SUAREZ (UPPSALA UNIVERSITY (SE) - CONVENER, Rebeca (Uppsala University (SE))

Session Classification: Parallel 7 –BSM

Contribution ID: **147**

Type: **not specified**

New gauge forces (Z' , W' ...)

Monday, 30 June 2025 15:41 (18 minutes)

Presenters: JUSTE, Aurelio (ICREA/IFAE (Barcelona)); FRANCESCHINI (INFN), Roberto (Rome 3 University)

Session Classification: Parallel 7 –BSM

Contribution ID: **148**

Type: **not specified**

Compositeness (indirectly from EFT fits)

Monday, 30 June 2025 15:59 (19 minutes)

Presenters: GOUSKOS, Loukas; FRANCESCHINI, Roberto (Rome 3 University)

Session Classification: Parallel 7 –BSM

Contribution ID: 149

Type: **not specified**

Extension of the minimal real scalar sector giving 1st order EW phase transition and possibly stability

Monday, 30 June 2025 16:18 (19 minutes)

Presenter: CRAIG (UC SANTA BARBARA), Nathaniel (UC Santa Barbara)

Session Classification: Parallel 7 –BSM

Contribution ID: **150**

Type: **not specified**

Flavor (together with flavor group)

Monday, 30 June 2025 16:37 (19 minutes)

Presenters: SHCHUTSKA (EPFL), Lesya (EPFL); RENNER (CERN), Sophie

Session Classification: Parallel 7 –BSM

Contribution ID: **151**

Type: **not specified**

PARALLEL 5 - FLAVOR

Monday, 30 June 2025 11:15 (1 minute)

Session Classification: Parallel 5 –Flavor

Contribution ID: **152**

Type: **not specified**

Parallel 7 –BSM

Monday, 30 June 2025 17:20 (1 minute)

Presenters: MAIER (CERN), Benedikt; MALTONI (LOUVAIN, BOLOGNA), Fabio (Istituto Nazionale di Fisica Nucleare)

Session Classification: Parallel 7 –BSM

Contribution ID: 153

Type: **not specified**

Symmetries as a solution of the Higgs naturalness problem; SUSY and other models (such as neutral naturalness)

Monday, 30 June 2025 17:21 (18 minutes)

Presenters: JUSTE (ICREA/IFAE), Aurelio (ICREA/IFAE (Barcelona)); COHEN (CERN), Tim (CERN)

Session Classification: Parallel 7 –BSM

Contribution ID: 154

Type: **not specified**

PARALLEL 5 - FLAVOUR (Part 2)

Monday, 30 June 2025 14:00 (1 minute)

Session Classification: Parallel 5 –Flavor (part II)

Contribution ID: 155

Type: **not specified**

Minimal dark matter (WIMP)

Monday, 30 June 2025 17:39 (19 minutes)

Presenters: DE COSA (ETHZ), Annapaola (ETHZ); COHEN (CERN), Tim (CERN)

Session Classification: Parallel 7 –BSM

Contribution ID: **156**

Type: **not specified**

CPV & CKM elements from heavy quark decays

Monday, 30 June 2025 14:01 (29 minutes)

Presenter: HUMAIR, T.

Session Classification: Parallel 5 –Flavor (part II)

Contribution ID: **157**

Type: **not specified**

Flavour physics with W & Z

Monday, 30 June 2025 14:30 (20 minutes)

Presenter: KOPPENBURG (NIKHEF), Patrick (Nikhef)

Session Classification: Parallel 5 –Flavor (part II)

Contribution ID: **158**

Type: **not specified**

SM tests with Kaons & pions

Monday, 30 June 2025 14:50 (15 minutes)

Presenter: MARCHEWSKII

Session Classification: Parallel 5 –Flavor (part II)

Contribution ID: **159**

Type: **not specified**

EMDs and LFV in light families

Monday, 30 June 2025 15:05 (25 minutes)

Presenter: PIGNOL (LPSC - IN2P3), Guillaume (Université Grenoble Alpes)

Session Classification: Parallel 5 –Flavor (part II)

Contribution ID: **160**

Type: **not specified**

buffer: dark photon

Monday, 30 June 2025 17:58 (10 minutes)

Presenters: DE COSA (ETHZ), Annapaola (ETHZ); SHCHUTSKA (EPFL), Lesya (EPFL); COHEN (CERN), Tim (CERN)

Session Classification: Parallel 7 –BSM

Contribution ID: **161**

Type: **not specified**

buffer: dark higgs

Monday, 30 June 2025 18:08 (10 minutes)

Presenters: DE COSA (ETHZ), Annapaola (ETHZ); SHCHUTSKA (EPFL), Lesya (EPFL); CRAIG (UC SANTA BARBARA), Nathaniel (UC Santa Barbara)

Session Classification: Parallel 7 –BSM

Contribution ID: **162**

Type: **not specified**

buffer: HNLs

Monday, 30 June 2025 18:18 (10 minutes)

Presenters: DE COSA (ETHZ), Annapaola (ETHZ); SHCHUTSKA (EPFL), Lesya (EPFL); FRANCESCHINI (INFN), Roberto (Rome 3 University)

Session Classification: Parallel 7 –BSM

Contribution ID: **163**

Type: **not specified**

buffer: ALPs

Monday, 30 June 2025 18:28 (10 minutes)

Presenters: DE COSA (ETHZ), Annapaola (ETHZ); SHCHUTSKA (EPFL), Lesya (EPFL); RENNER (CERN), Sophie

Session Classification: Parallel 7 –BSM

Contribution ID: **164**

Type: **not specified**

Discussion on Portals

Monday, 30 June 2025 18:38 (37 minutes)

Session Classification: Parallel 7 –BSM

Contribution ID: **165**

Type: **not specified**

Parallel 3 - NEUTRINOS AND COSMIC MESSENGERS

Monday, 30 June 2025 11:15 (1 minute)

Session Classification: Parallel 3 - Neutrinos and Cosmic Messengers

Contribution ID: **166**

Type: **not specified**

Neutrino oscillations: neutrino masses, mixings and CP symmetry

Monday, 30 June 2025 11:16 (29 minutes)

Presenter: Dr SCOTT (IMPERIAL COLLEGE LONDON), Mark (Imperial College London)

Session Classification: Parallel 3 - Neutrinos and Cosmic Messengers

Contribution ID: **167**

Type: **not specified**

Discussion

Monday, 30 June 2025 11:45 (15 minutes)

Presenter: DOLAN (CERN) - DISCUSSION LEADER, Stephen (CERN)

Session Classification: Parallel 3 - Neutrinos and Cosmic Messengers

Contribution ID: **168**

Type: **not specified**

Neutrino cross-sections

Monday, 30 June 2025 12:00 (20 minutes)

Presenter: ESTEBAN (UNIVERSITY OF THE BASQUE COUNTRY), Ivan

Session Classification: Parallel 3 - Neutrinos and Cosmic Messengers

Contribution ID: **169**

Type: **not specified**

Discussion

Monday, 30 June 2025 12:20 (15 minutes)

Presenter: GONZALEZ-GARCIA (ICREA-U BARCELONA /YITP-STONYBROOK) - DISCUSSION
LEADER, Concepcion (ICREA-U Barcelona and YITP-StonyBrook)

Session Classification: Parallel 3 - Neutrinos and Cosmic Messengers

Contribution ID: 170

Type: **not specified**

Parallel 3 - NEUTRINOS AND COSMIC MESSENGERS (part II)

Monday, 30 June 2025 14:00 (1 minute)

Session Classification: Parallel 3 - Neutrinos and Cosmic Messengers (part II)

Contribution ID: 171

Type: **not specified**

BSM searches in neutrino experiments

Monday, 30 June 2025 14:01 (19 minutes)

Presenter: KOPP (CERN AND JGU MAINZ), Joachim (CERN and JGU Mainz)

Session Classification: Parallel 3 - Neutrinos and Cosmic Messengers (part II)

Contribution ID: 172

Type: **not specified**

Discussion

Monday, 30 June 2025 14:20 (15 minutes)

Presenter: GONZALEZ-GARCIA (ICREA-U BARCELONA /YITP-STONYBROOK) - DISCUSSION
LEADER, Concepcion (ICREA-U Barcelona and YITP-StonyBrook)

Session Classification: Parallel 3 - Neutrinos and Cosmic Messengers (part II)

Contribution ID: 173

Type: **not specified**

Neutrino mass scale and Nature

Monday, 30 June 2025 12:35 (20 minutes)

Presenter: FORMAGGIO, Joe

Session Classification: Parallel 3 - Neutrinos and Cosmic Messengers

Contribution ID: **174**

Type: **not specified**

Discussion

Monday, 30 June 2025 12:55 (5 minutes)

Presenter: IANNI (INFN) - DISCUSSION LEADER, Aldo (Istituto Nazionale di Fisica Nucleare)

Session Classification: Parallel 3 - Neutrinos and Cosmic Messengers

Contribution ID: 175

Type: **not specified**

Comic messengers

Monday, 30 June 2025 14:35 (30 minutes)

Presenter: HEIJBOER, Aart

Session Classification: Parallel 3 - Neutrinos and Cosmic Messengers (part II)

Contribution ID: **176**

Type: **not specified**

Discussion

Monday, 30 June 2025 15:05 (25 minutes)

Presenter: RESCONI, Elisa

Session Classification: Parallel 3 - Neutrinos and Cosmic Messengers (part II)

Contribution ID: **177**

Type: **not specified**

prova 1

Monday, 30 June 2025 22:00 (30 minutes)

Session Classification: -

Contribution ID: **178**

Type: **not specified**

prova 2

Monday, 30 June 2025 22:30 (30 minutes)

Session Classification: -

Contribution ID: **179**

Type: **not specified**

talk 1 manu

Monday, 30 June 2025 22:00 (14 minutes)

Session Classification: -

Contribution ID: **180**

Type: **not specified**

prova S

Monday, 30 June 2025 11:15 (1h 45m)

Presenter: MORONI, Stefano (Eeee)

Session Classification: Parallel 1 - Electroweak Physics