

JENAS 2022

Tuesday, 3 May 2022 - Friday, 6 May 2022

Madrid
Programme

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Tuesday, 3 May 2022

Registration at Conference Site - refreshments & lunch ticket (13:00 - 15:00)

Welcome and Physics Highlights (15:00 - 17:00)

-Conveners: Garcia Borge, Maria Jose (Consejo Superior de Investigaciones Cientificas (CSIC) (ES))

time	title	presenter
15:00	Welcome by the General Secretary of the Ministry of Science and Innovation	Dr YOTTI, Raquel (MICINN)
15:10	Presentation of the CSIC	MARCO, Jesus (Universidad de Cantabria and CSIC (ES))
15:30	Physics highlights and challenges - astroparticle physics	DE JONG, Sijbrand (Radboud University Nijmegen (NL), Nikhef)
16:00	Physics highlights and challenges - particle physics	SPHICAS, Paris (CERN/Athens)
16:30	Physics highlights and challenges - nuclear physics	NEYENS, Gerda (KU Leuven (BE))

Coffe Break (17:00 - 17:30)

Overall strategies; to set the scene (17:30 - 19:00)

-Conveners: Krammer, Manfred (CERN)

time	title	presenter
17:30	Strategy APPEC	HAUNGS, Andreas (Karlsruhe Institute of Technology - KIT / APPEC)
18:00	Strategy ECFA	JAKOBS, Karl (Albert Ludwigs Universitaet Freiburg (DE))
18:30	Strategy NuPECC	LEWITOWICZ, Marek (GANIL / NuPECC)

Welcome Cocktail (19:00 - 20:20)

Wednesday, 4 May 2022

EoI Reports 1 (09:00 - 10:30)

-Conveners: Kouchner, Antoine David (Centre National de la Recherche Scientifique (FR))

time	title	presenter
09:00	Eol 1 - Dark Matter - iDMEu	PETRICCA, Federica (Max Planck Society (DE))
09:30	Eol 2 - Gravitational Waves for fundamental physics	PANI, Paolo (Sapienza University of Rome)
10:00	Eol 3 - Machine-Learning Optimized Design of Experiments - MODE	VISCHIA, Pietro (Universite Catholique de Louvain (UCL) (BE))

Coffe break (10:30 - 11:00)

EoI Reports 2 (11:00 - 13:00)

-Conveners: Widmann, Eberhard (Austrian Academy of Sciences (AT))

time	title	presenter
11:00	Eol 4 - Nuclear Physics at the LHC	FABBIETTI, Laura (Technische Universität Munchen (DE))
11:30	Eol 5 - Storage Rings for the Search of Charged-Particle Electric Dipole Moments (EDM)	PRETZ, Jörg (IKP-2 Jülich)
12:00	Eol 6 - EIC	BOER, Daniel (University of Groningen)
12:30	Eol proposal - Gamma Factory	KRASNY, Mieczyslaw Witold (LPNHE, Sorbonne University, Paris, Centre National de la Recherche Scientifique (FR) and CERN)

Lunch break (13:00 - 15:00)

Knowledge Transfer-Best Practices (15:00 - 16:00)

-Conveners: Chomaz, Patricia (GANIL)

time	title	presenter
15:00	Knowledge Transfer - Best Practices	FRISCH, Benjamin (CERN)
15:20	Knowledge Transfer-Best Practices: Round table discussion	GRANJA , Carlos (CHAIR - ADVACAM, Czech Republic) FRISCH, Benjamin (CERN) FERNÁNDEZ, Erik (INEUSTAR / INDUCIENCIA) PREVITALI, Ezio (INFN) Dr GARCIA, Gaston (CMAM - UAM)

Coffee break (16:00 - 16:30)

Training, Education and Outreach (16:30 - 18:00)**-Conveners: Alexa, Calin (IFIN-HH (RO))**

time	title	presenter
16:30	Training of scientific and technical staff - (remote presentation)	WELSCH, Carsten Peter (Cockcroft Institute / University of Liverpool)
16:45	Education	AARTS, Gert (Swansea University)
17:00	Outreach	GONZALEZ SUAREZ, Rebeca (Uppsala University (SE))
17:15	Training, Education and Outreach - Round Table Discussion	KOBEL, Michael (CHAIR - Technische Universitaet Dresden (DE)) AARTS, Gert (Swansea University) BRENNER, Lydia (CERN) ARIAS CARRASCO, Jose Miguel (Universidad de Sevilla) GONZALEZ SUAREZ, Rebeca (Uppsala University (SE)) TRAINA, Michelangelo (LPNHE, Sorbonne Université, Paris) WELSCH, Carsten Peter (Cockcroft Institute / University of Liverpool)

Poster session - (no talks) Refreshments will be served (18:00 - 20:05)

time	title	presenter
18:00	THE DARK MATTER DATA CENTER: Fostering Data and Information Sharing for the Dark Matter Community	BANERJEE, Heerak (Technical University of Munich) FERREIRO, Nahuel
18:05	Impact of operator interference on direct dark matter searches	BRENNER, Anja (TUM)
18:10	Impact of astrophysical uncertainties and non-galactic dark matter on direct dark matter searches	HERRERA, Gonzalo (TUM, Max-Planck Institute for Physic)
18:15	Constraints on light Dark Matter Models from Cosmic Ray Electron-DM scattering	SACHDEVA, Divya (LPTHE, Sorbonne Université)
18:20	Cosmic Coincidences of Primordial-Black-Hole Dark Matter	WU, Yi-Peng (Laboratoire de Physique Théorique et Hautes Énergies (LPTHE))
18:25	Astrophysical probes of dark matter	SABO, Gabriella (Lund university (SE))
18:30	Experimental frontiers: dark matter complementarity and dark photon benchmarks	GREAVES, Joshua (Univ. of Lund (SE))
18:35	The Dark Matter Science Project in European Open Science Cloud (EOSC) Future	LITTLE, Jared (Centre National de la Recherche Scientifique (FR))
18:40	Detector conception and momentum measurement optimization for multiple scattering muography	LAGRANGE, Maxime (CP3 Université Catholique de Louvain)

18:45	Optimization of the LHCb calorimeter	BOLDYREV, Alexey (CERN)
18:50	Optimization of energy measurements at muon colliders	LAYER, Lukas (Universita e sezione INFN di Napoli (IT))
18:55	Gravitational radiation from inspiralling compact objects: Spin effects to fourth Post-Newtonian order	YANG, Zixin (Deutsches Elektronen-Synchrotron DESY)
19:00	Fundamental physics implications of LIGO-Virgo gravitational wave ringdown observations	CARULLO, Gregorio (Theoretisch-Physikalische Institut,)
19:05	How does a dark compact object ringdown?	MAGGIO, Elisa (Albert Einstein Institute - Max Planck Gravitation)
19:10	Lattice Calculations for Quark Transversity Distributions for the Nucleon	WALTER, Lisa (Universität Regensburg)
19:15	QCD Factorization of Exclusive Processes to probe GTMDs	GUTIERREZ GARCIA, Patricia Andrea (Universidad Complutense de Madrid)
19:20	Towards precise collider predictions: the Parton Branching method	LELEK, Aleksandra Anna (University of Antwerp (BE))
19:25	Parton Branching prediction for the HERA and LHC measurements	TAHERI MONFARED, Sara (Deutsches Elektronen-Synchrotron (DE))
19:30	Hadron-hadron interaction studies at the LHC and the mystery of neutron stars	ŠERKŠNYTĖ, Laura (Technische Universitaet Muenchen (DE))
19:35	The dark side of ALICE: from antinuclei interactions to dark matter searches in space	KONIGSTORFER, Stephan Alexander (Technische Universitaet Muenchen (DE))
19:40	The search for electric dipole moments of charged particles using storage rings	SHMAKOVA, Vera (FZ-Juelich)
19:45	Spin-Tracking simulations in an idealized COSY model using Bmad	VITZ, Max (RWTH - Aachen)
19:50	Simulations of Beam Dynamics of Prototype EDM Storage Ring	SIDDIQUE, Saad (IKP Forschungszentrum Jülich ,(DE))
19:55	Parton branching prediction for the HERA and LHC measurements	SHANKAR, Rahul (University of Ferrara and INFN)

Thursday, 5 May 2022

Closed session with funding agencies and 3 chairs (08:30 - 09:00)

Building the future together (09:00 - 11:00)

-Conveners: Greenlees, Paul Thomas (University of Jyväskylä (FI))

time	title	presenter
09:00	Open questions in fundamental physics and our main future facilities to address them	D'HONDT, Jorgen (Vrije Universiteit Brussel (BE))
09:30	Detector technology challenges to realise our scientific ambitions	SHIPSEY, Ian (University of Oxford (GB))
10:00	Challenges in computing and software for our Big Data	MERINO AREVALO, Gonzalo (Port d'Informació Científica (PIC))
10:30	Infrastructures for Fundamental science from the EC perspective	POSTIGO MCLAUGLIN, Patricia (European Commission)

Coffee break (11:00 - 11:30)

Computing and Software situation, challenges and avenues for the future 1 (11:30 - 13:30)

-Conveners: Kersevan, Borut (Jozef Stefan Institute)

time	title	presenter
11:30	Precise calculations	ZANDERIGHI, Giulia (Max Planck Society (DE))
12:00	Quantum computing	CHOMAZ, Philippe (CEA)
12:30	Open Data for APPEC-ECFA-NuPECC	LAMANNA, Giovanni (CNRS)
13:00	Sustainability and future of software frameworks	STEWART, Graeme A (CERN)

GROUP PHOTO: GROUP PHOTO (13:30 - 13:45)

Lunch break (13:45 - 15:30)

Diversity and recognition at Large scale projects (15:30 - 16:30)

-Conveners: Katrin Link

time	title	presenter
15:30	WG on Recognition of achievements in large collaborations	GANGLER, Emmanuel (Institut de Physique Nucleaire de Lyon (IPNL))
16:00	WG - survey on Diversity	CONDE MUINO, Patricia (LIP Laboratório de Instrumentação e Física Experimental de Partículas (PT))

Coffee (16:30 - 17:00)**Free Time (17:00 - 20:00)****Conference dinner - Restaurant Jai-Alai (20:00 - 22:00)**

time	title	presenter
20:00	Restaurant Jai-Alai	

Friday, 6 May 2022

Detector R&D (09:00 - 10:30)

-Conveners: Bortoletto, Daniela (University of Oxford (GB))

time	title	presenter
09:00	Photo-sensors	HELLER, Matthieu (Universite de Geneve (CH))
09:30	Solid-state devices	PELLEGRINI, Giulio (Centro Nacional de Microelectrónica (IMB-CNM-CSIC) (ES))
10:00	Calorimetry	SIMON, Haik (GSI Helmholtzzentrum für Schwerionenforschung GmbH(GSI))

Coffee break (10:30 - 11:00)

Accelerator and Technology R&D (11:00 - 12:30)

-Conveners: To be confirmed

time	title	presenter
11:00	Cryogenics	GROHMANN, Steffen (Karlsruhe Institute of Technology)
11:30	Accelerator technology	BORDRY, Frederick (CERN Honorary Member)
12:00	How to limit the environmental impact	CAPEANS GARRIDO, Mar (CERN)

Closing: Funding Agencies Perspectives & Closing remarks (12:30 - 13:00)

-Conveners: A. Haungs K. Jakobs M. Lewitowicz

Lunch (13:00 - 14:20)