

Draft - Open Symposium - Update of the European Strategy for Particle Physics

Sunday, 12 May 2019 - Friday, 17 May 2019

**Granada Conference Center
Programme**

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Sunday 12 May 2019

Closed session - meeting of the Physics Preparatory Group (14:00-17:00)

Registration (19:00-21:00)

Monday 13 May 2019

Registration (08:00-09:00)

Plenary Session (13 May 2019, 09:00-10:40)

Tentative schedule

time	[id] title	presenter
09:00	[1] Welcome (10 minutes)	
09:10	[2] Overview of the Symposium (10 minutes)	BUENO VILLAR, Antonio (Universidad de Granada (ES))
09:20	[3] Goals of the Symposium (10 minutes)	ABRAMOWICZ, Halina (Tel Aviv University (IL))
09:30	[8] Implementation of the 2013 European Strategy Update (35 minutes)	GIANOTTI, Fabiola (CERN)
10:05	[9] Outstanding Questions in Particle Physics (35 minutes)	HERNANDEZ, Pilar

Coffee break (10:40-11:10)**Plenary Session (13 May 2019, 11:10-13:30)*****Tentative schedule***

time	[id] title	presenter
11:10	[10] State of the art and challenges in accelerator technology - Past and present (35 minutes)	YAMAMOTO, Akira (CERN/KEK)
11:45	[11] Future – Path to very high energies (35 minutes)	SHILTSEV, Vladimir (Fermilab)
12:20	[12] Technological challenges of particle physics experiments (35 minutes)	FORTI, Francesco (INFN Sezione di Pisa, Universita' e Scuola Normale Superiore, P)
12:55	[13] Computing challenges of the future (35 minutes)	CAMPANA, Simone (CERN)

Lunch (13:30-15:00)**B2 - Flavour Physics and CP violation (13 May 2019, 15:00-19:30)**

-Conveners: Gavela, Belen (Univ. Autonoma de Madrid and IFT (ES)); Zoccoli, Antonio (Universit a and INFN, Bologna (IT))

time	[id] title	presenter
15:00	[99] Overview on Flavour Physics (25'+5') (30 minutes)	NIR, Yosef (Weizmann Institute (IL))
15:30	[100] Flavour and CP searches with K's (20'+10') (30 minutes)	SOZZI, Marco (Universita di Pisa and INFN (IT))
16:00	[101] Flavour and CP searches with heavy flavours (25'+10') (35 minutes)	SCHUNE, Marie-Helene (LAL, Orsay (FR))
16:35	Coffee break (25 minutes)	
17:00	[102] Precision prospects for the lattice input to CKM determinations (20'+10') (30 minutes)	PENA, Carlos (Univ. Autonoma de Madrid and IFT (ES))
17:30	[103] Theoretical perspective on EDMs and the strong CP problem (20'+10') (30 minutes)	DINE, Michael (UCSC (USA))
18:00	[104] The EDM hunt: neutron, charged hadrons, leptons (20'+10') (30 minutes)	PAUL, Stephan (TUM (DE))
18:30	[105] Discussion session (1 hour)	ISIDORI, Led by Gino (Univ. of Zurich (CH))

B4 - Accelerator Science and Technology (13 May 2019, 15:00-19:30)**-Conveners: Caterina Biscari; Rivkin, Lenny (Paul Scherrer Institut (CH))**

time	[id] title	presenter
15:00	[59] LHC future (20'+10') (30 minutes)	ROSSI, Lucio (CERN)
15:30	[60] Future Circular Colliders (20'+10') (30 minutes)	BENEDIKT, Michael (CERN)
16:00	[61] Future Linear Colliders (20'+10') (30 minutes)	STAPNES, Steinar (CERN)
16:30	[176] Discussion (20 minutes)	
16:50	Coffee break (30 minutes)	
17:20	[142] Overview and Technological Challenges of proposed Higgs Factories (20'+10') (30 minutes)	SCHULTE, Daniel (CERN)
17:50	[211] Discussion (1h 40m)	

B1 - Electroweak Physics (13 May 2019, 15:00-19:30)

-Conveners: Heinemann, Beate (DESY and University of Freiburg (Germany)); Ellis, Richard Keith (University of Durham (GB))

time	[id] title	presenter
15:00	[70] Prospects for Higgs and EW measurements at HL-LHC (20'+10') (30 minutes)	AZZI, Patrizia (INFN Padova (IT))
15:30	[71] QCD uncertainties on Higgs and EWK measurables (20'+5') (25 minutes)	CAOLA, Fabrizio (University of Oxford (GB))
15:55	[42] What can we learn about our Universe from Higgs and EWK observables? (30'+5') (35 minutes)	RATTAZZI, Riccardo (EPFL - Ecole Polytechnique Federale Lausanne (CH))
16:30	[74] Discussion (20 minutes)	
16:50	Coffee Break (30 minutes)	
17:20	[72] Overview and technical challenges of proposed Higgs factories (20'+10') (30 minutes)	SCHULTE, Daniel (CERN)
17:50	[73] Capability of future machines for precision Higgs physics (30'+5') (35 minutes)	CEPEDA, Maria (Centro de Investigaciones Energéticas Medioambientales y Tecno)
18:25	[54] Discussion (1h 5m)	

B3 - Dark Matter and Dark Sector (13 May 2019, 15:00-19:30)

-Conveners: Asai, Shoji (University of Tokyo (JP)); Carena Lopez, Marcela Silvia (Fermi National Accelerator Lab. (US))

time	[id] title	presenter
15:00	[172] Dark Sectors and DM Models: from ultralight to ultra heavy (30 minutes)	ZUREK, Kathryn (LBNL)
15:30	[196] Direct Detection (30 minutes)	MONROE, Jocelyn Rebecca (University of London (GB))
16:00	[197] Indirect DM detection overview (20 minutes)	WENIGER, Christoph (Max Planck Institute for Physics, Munich)
16:20	[198] Discussion overview (10 minutes)	CARENA LOPEZ, Marcela Silvia (Fermi National Accelerator Lab. (US)) ASAI, Shoji (University of Tokyo (JP))
16:30	Coffee break (30 minutes)	
17:00	[173] How can/will Direct and Indirect DM searches guide DM Searches at Accelerators? (30 minutes)	LISANTI, Mariangela (Stanford University)
17:30	[199] Theory: DM at Colliders (30 minutes)	MCCULLOUGH, Matthew (M)
18:00	[200] Collider Search: DM at Colliders (30 minutes)	DOGLIONI, Caterina (Lund University (SE))
18:30	[201] Discussion for WIMP (1 hour)	CARENA LOPEZ, Marcela Silvia (Fermi National Accelerator Lab. (US)) ASAI, Shoji (University of Tokyo (JP))

Tuesday 14 May 2019

B7 - Neutrino Physics (14 May 2019, 09:00-13:30)

-Conveners: Bentvelsen, Stan (Nikhef National institute for subatomic physics (NL)); Zito, Marco (Université Paris-Saclay (FR))

time	[id] title	presenter
09:00	[147] Theories of neutrino masses and leptonic CP violation (30 minutes)	PASCOLI, Silvia (University of Durham (GB))
09:30	[149] Precision determination of neutrino mass-mixing parameters (30 minutes)	LISI, Eligio (INFN, Bari, Italy)
10:00	[150] Prospects for the measurement of the neutrino Mass ordering and leptonic CP violation (30 minutes)	MEZZETTO, Mauro (INFN)
10:30	[151] Measurements of Neutrino-nucleus cross sections and neutrino flux (30 minutes)	SANCHEZ, Federico (Universite de Geneve (CH))
11:00	Coffee break (30 minutes)	
11:30	[148] Measurements of the neutrino mass (30 minutes)	MERTENS, Susanne (Max Planck Institute for Physics)
12:00	[152] Prospects for the search of sterile neutrinos (30 minutes)	FLEMING, Bonnie (Yale University)
12:30	[153] Prospects for the search of Heavy Neutral Leptons (30 minutes)	SERRA, Nicola (Universitaet Zuerich (CH))
13:00	[212] Discussion (30 minutes)	

B8 - Instrumentation and Computing (14 May 2019, 09:00-13:30)

**-Conveners: Vachon, Brigitte (McGill University, (CA)); Lou, Xinchou (Chinese Academy of Sciences (CN));
Leogrande [Scientific Secretary], Emilia (CERN); Jones [Scientific Secretary], Roger (Lancaster (Scientific Secretary))**

time	[id] title	presenter
09:00	[127] Lessons learned from past instrumentation R&D (20+10 min) (30 minutes)	TBD
09:30	[128] Technological challenges of future HEP experiments (30 + 10 min) (40 minutes)	LINSSEN, Lucie (CERN)
10:10	[213] Discussion (30 minutes)	
10:40	Coffee break (30 minutes)	
11:10	[129] Detector R&D for future HEP experiments (30+10 min) (40 minutes)	TBD
11:50	[130] Technological synergies in instrumentation R&D with non-HEP experimental programs and industry (20+10 min) (30 minutes)	TBD
12:20	[131] Panel discussion (1h 10m)	

B6 - Strong Interactions: QCD at high energies oriented (14 May 2019, 09:00-13:30)**-Conveners: Redlich, Krzysztof (University of Wroclaw (PL)); D'Hondt, Jorgen (Vrije Universiteit Brussel (BE))**

time	[id] title	presenter
09:00	[16] Scientific aspirations of the community in strong interactions (20 minutes)	GEHRMANN, Thomas
09:20	[32] Discussion (10 minutes)	
09:30	[17] Experimental path for QCD physics in high-energy beams (20 minutes)	D'ENTERRIA, David (CERN)
09:50	[33] Discussion (10 minutes)	
10:00	[18] Theoretical path for QCD physics (20 minutes)	SALAM, Gavin (CERN)
10:20	[34] Discussion (15 minutes)	
10:35	[177] Reserve (15 minutes)	
10:50	Coffee break (25 minutes)	
11:15	[19] Strong Interaction physics with the (HL-)LHC pre-accelerator complex (30 minutes)	SCHNELL, Gunar
11:45	[29] Discussion (15 minutes)	
12:00	[20] Strong Interaction physics with a future CERN pre-accelerator complex (30 minutes)	BOER, Daniel
12:30	[30] Discussion (15 minutes)	
12:45	[21] Fixed Target opportunities at the (HL-)LHC (20 minutes)	LANSBERG, Jean-Philippe (Centre National de la Recherche Scientifique (FR))
13:05	[31] Discussion (10 minutes)	
13:15	[178] Reserve (15 minutes)	

B5 - Beyond the Standard Model at colliders (14 May 2019, 09:00-13:30)**-Conveners: Giudice, Gian (CERN); Sphicas, Paris (CERN/Athens)**

time	[id] title	presenter
09:00	[14] EWSB dynamics and resonances: what we can expect from experiments (30 minutes)	ALCARAZ MAESTRE, Juan (Centro de Investigaciones Energéticas, Medioambientales y Tecnológicas (CIEMAT, Madrid))
09:30	[144] Discussion (10 minutes)	
09:40	[15] EWSB dynamics and resonances: implications for theory (30 minutes)	WULZER, Andrea (CERN)
10:10	[145] Discussion (10 minutes)	
10:20	[146] Supersymmetry: what we can expect from experiments (30 minutes)	D'ONOFRIO, Monica (University of Liverpool (GB))
10:50	[181] Discussion (10 minutes)	
11:00	Coffee break (30 minutes)	
11:30	[143] Supersymmetry: implications for theory (30 minutes)	WEILER, Andreas
12:00	[183] Discussion (10 minutes)	
12:10	[184] Extended Higgs sectors and High-energy flavor dynamics: what we can expect from experiments (30 minutes)	ROLOFF, Philipp (CERN)
12:40	[182] Discussion (10 minutes)	
12:50	[185] Extended Higgs sectors and High-energy flavor dynamics: implications for theory (30 minutes)	SANZ GONZALEZ, Veronica
13:20	[186] Discussion (10 minutes)	

Lunch (13:30-15:00)**B1 - Electroweak Physics (14 May 2019, 15:00-19:30)**

-Conveners: **Heinemann, Beate (DESY and University of Freiburg (Germany)); Ellis, Richard Keith (University of Durham (GB))**

time	[id] title	presenter
15:00	[75] Electroweak Precision Measurements at future experiments (collider and non-collider) (20'+10') (30 minutes)	LANCASTER, Mark (University College London (UK))
15:30	[76] Precision Electroweak calculations (Giga-Z,WW, Higgs BRs, etc) (20'+10') (30 minutes)	DITTMAYER, Stefan (Albert Ludwigs Universitaet Freiburg (DE))
16:00	[77] Understanding the EWK potential and its role in our Universe (20'+5') (25 minutes)	SERVANT, Geraldine (Deutsches Elektronen-Synchrotron (DE))
16:25	Coffee break (30 minutes)	
16:55	[78] Path towards measuring the Higgs potential (20'+5') (25 minutes)	PETIT, Elisabeth (CPPM, Aix-Marseille Université, CNRS/IN2P3 (FR))
17:20	[58] Interpretation of Higgs and EWK data in EFT framework (20'+5') (30 minutes)	DE BLAS, Jorge (University of Padova) DE BLAS, Jorge (Universita e INFN, Padova (IT))
17:50	[79] Discussion (1h 40m)	

B2 - Flavour Physics and CP violation (14 May 2019, 15:00-19:30)

-Conveners: Zoccoli, Antonio (Universita e INFN, Bologna (IT)); Gavela, Belen (Universidad Autonoma de Madrid (ES))

time	[id] title	presenter
15:00	[106] CP violation in Higgs and in gauge boson couplings (20'+10') (30 minutes)	GORI, Stefania (UCSC (USA))
15:30	[107] Physics prospects with muons (20'+10') (30 minutes)	KUNO, Yoshikata (Osaka University (JP))
16:00	[108] Physics prospects with taus (20'+10') (30 minutes)	LUSIANI, Alberto (INFN and Scuola Normale Superiore, Pisa (IT))
16:30	Coffee break (30 minutes)	
17:00	[109] Lepton universality: B and K anomalies (20'+10') (30 minutes)	FAJFER, Svetlana (Ljubljana University and J. Stefan Institute (SI))
17:30	[110] Flavour and CP violation in the dark sectors (20'+10') (30 minutes)	ZUPAN, Jure (Univ. of Cincinnati (USA))
18:00	[111] Invisible channels and long lived particles. Comparison of potentialities. (20'+10') (30 minutes)	CECCUCCI, Augusto (CERN (CH))
18:30	[112] Discussion session (1 hour)	HILLER, Led by Gudrun (Univ. of Dortmund (DE)) TEIXEIRA, and Ana (LPC Clermont-Ferrand and IN2P3 (FR))

B4 - Accelerator Science and Technology (14 May 2019, 15:00-19:30)**-Conveners: Caterina Biscari; Rivkin, Lenny (Paul Scherrer Institut (CH))**

time	[id] title	presenter
15:00	[66] Muon collider (20'+10') (30 minutes)	SCHULTE, Daniel (CERN)
15:30	[67] Accelerator-based Neutrino beams (20'+10') (30 minutes)	SHILTSEV, Vladimir (Fermilab)
16:00	[68] Energy efficiency of HEP infrastructures (20'+10') (30 minutes)	JENSEN, Erk (CERN)
16:30	Coffee break (30 minutes)	
17:00	[81] Present of plasma-acceleration projects (20'+10') (30 minutes)	GSCHWENDTNER, Edda (CERN)
17:30	[82] Challenges of plasma acceleration (20'+10') (30 minutes)	LEEMANS, Wim (DESY)
18:00	[83] Beyond colliders (20'+10') (30 minutes)	LAMONT, Mike (CERN)
18:30	[214] Discussion (1 hour)	

B3 - Dark Matter and Dark Sector (14 May 2019, 15:00-19:30)

-Conveners: Asai, Shoji (University of Tokyo (JP)); Carena Lopez, Marcela Silvia (Fermi National Accelerator Lab. (US))

time	[id] title	presenter
15:00	[174] Ultra-light DM (ALPS) Theory and Overview (30 minutes)	RINGWALD, Andreas (Deutsches Elektronen-Synchrotron DESY) AGRAWAL, Prateek (Harvard University)
15:30	[202] ALPS: Lab searches (20 minutes)	LINDNER, Axel (DESY)
15:50	[203] ALPS: Helioscope searches (20 minutes)	GARCIA IRASTORZA, Igor (Universidad de Zaragoza (ES))
16:10	[204] ALPS: Discussion (20 minutes)	DOBRICH, Babette (CERN) JAECKEL, Joerg (ITP Heidelberg)
16:30	Coffee break (30 minutes)	
17:00	[175] Dark Sector searches with Beam Dumps: Theory and Overview (30 minutes)	FRUGIUELE, Claudia
17:30	[205] Lepton Beams: LDMX@eSPS (NA64++, AWAKE++) (15 minutes)	POTTGEN, Ruth (Lund University (SE))
17:45	[206] Proton Beams: SHIP@BDF (15 minutes)	GRAVERINI, Elena (EPFL - Ecole Polytechnique Federale Lausanne (CH))
18:00	[207] General Perspective (20 minutes)	VALLEE, Claude (Centre de Physique des Particules de Marseille)
18:20	[208] Beam Dump (Middle mass range): Discussion (1h 10m)	KRNJAIC, Gordan (Fermilab) PETRIDIS, Konstantinos (University of Bristol (GB))

Conference dinner - Participants will be transported by bus (14 May 2019, 21:00-23:00)

Wednesday 15 May 2019

B8 - Instrumentation and Computing (15 May 2019, 09:00-13:30)

**-Conveners: Vachon, Brigitte (McGill University, (CA)); Lou, Xinchou (Chinese Academy of Sciences (CN));
Leogrando [Scientific Secretary], Emilia (CERN); Jones [Scientific Secretary], Roger (Lancaster)**

time	[id] title	presenter
09:00	[132] Current HEP computing model (20+10 min) (30 minutes)	TBD
09:30	[133] Lessons (to be) learned from the development of the current HEP computing model (30 minutes)	JONES, Roger (Lancaster University (GB))
10:00	[134] Future challenges of HEP computing (20+10 min) (30 minutes)	TBD
10:30	Coffee break (30 minutes)	
11:00	[169] HEP computing infrastructure R&D (20+10 min) (30 minutes)	GIRONE, Maria (CERN)
11:30	[170] HEP Computing Software R&D (20+10 min) (30 minutes)	GRAEME, Stewart
12:00	[171] Panel discussion (1h 30m)	

B7 - Neutrino Physics (15 May 2019, 09:00-13:30)

-Conveners: Zito, Marco (Université Paris-Saclay (FR)); Bentvelsen, Stan (Nikhef National institute for subatomic physics (NL))

time	[id] title	presenter
09:00	[154] Cosmic ray physics (30 minutes)	HAUNGS, Andreas
09:30	[155] Neutrino astroparticle physics (30 minutes)	HALZEN, Francis (University of Wisconsin)
10:00	[156] Gravitational waves (30 minutes)	SATHYAPRAKASH, Bangalore (Cardiff University)
10:30	[157] Multimessenger physics (30 minutes)	BERNARDINI, Elisa (Laboratorio Nazionale del Gran Sasso (LNGS))
11:00	Coffee break (30 minutes)	
11:30	[158] Discussion on PMNS program (30 minutes)	
12:00	[159] Discussion on Neutrino mass and new neutrino states (30 minutes)	
12:30	[160] Discussion on Cosmic messengers (1 hour)	

B5 - Beyond the Standard Model at colliders (15 May 2019, 09:00-13:30)**-Conveners: Giudice, Gian (CERN); Sphicas, Paris (CERN/Athens)**

time	[id] title	presenter
09:00	[190] Feebly interacting particles: theory landscape (30 minutes)	PEREZ, Gilad (CERN & Weizmann)
09:30	[189] Discussion (10 minutes)	
09:40	[188] Feebly interacting particles: what we can expect from experiments (30 minutes)	LANFRANCHI, Gaia (INFN e Laboratori Nazionali di Frascati (IT))
10:10	[191] Discussion (10 minutes)	
10:20	[192] Global discussion on DM and FIPs (40 minutes)	
11:00	Coffee Break (30 minutes)	
11:30	[193] Global discussion on EWSB, resonances, SUSY, extended scalars and HE flavor (40 minutes)	
12:10	[194] Summary of BSM session (30 minutes)	GIUDICE, Gian (CERN) SPHICAS, Paris (CERN/Athens)
12:40	[195] Discussion on BSM session and its summary (50 minutes)	GIUDICE, Gian (CERN) SPHICAS, Paris (CERN/Athens)

B6 - Strong Interactions: Heavy Ion oriented (15 May 2019, 09:00-13:30)**-Conveners: Redlich, Krzysztof (University of Wroclaw (PL)); D'Hondt, Jorgen (Vrije Universiteit Brussel (BE))**

time	[id] title	presenter
09:00	[22] Theory challenges for Heavy Ion physics (20 minutes)	WIEDEMANN, Urs (CERN)
09:20	[35] Discussion (10 minutes)	
09:30	[23] Heavy Ion collisions at (HL-)LHC (20 minutes)	STACHEL, Johanna (Ruprecht Karls Universitaet Heidelberg (DE))
09:50	[36] Discussion (10 minutes)	
10:00	[24] Strong interaction physics at future eA colliders (20 minutes)	ARMESTO PEREZ, Nestor (Universidade de Santiago de Compostela (ES))
10:20	[37] Discussion (10 minutes)	
10:30	[179] Reserve (15 minutes)	
10:45	Coffee break (30 minutes)	
11:15	[161] Emerging facilities around the world for strong interaction physics (20 minutes)	GALATYUK, Tetyana (TU Darmstadt / GSI)
11:35	[162] Discussion (10 minutes)	
11:45	[163] Strong interaction physics at future ep colliders (20 minutes)	KLEIN, Uta (University of Liverpool (GB))
12:05	[164] Discussion (10 minutes)	
12:15	[165] Synergies with astroparticle, nuclear and neutrino physics (20 minutes)	PIEROG, Tanguy (KIT)
12:35	[166] Discussion (10 minutes)	
12:45	[167] Precision QCD physics at low energies (20 minutes)	KIRCH, Klaus (PSI)
13:05	[168] Discussion (10 minutes)	
13:15	[180] Reserve (15 minutes)	

Lunch (13:30-14:45)**Plenary Session (15 May 2019, 14:45-16:35)*****Tentative schedule***

time	[id] title	presenter
14:45	[43] Perspective on the European Strategy from the Americas (20'+10') (30 minutes)	KIM, Young-Kee (University of Chicago (US))
15:15	[44] Perspective on the European Strategy from Asia (20'+10') (30 minutes)	TAYLOR, Geoffrey Norman (University of Melbourne (AU))
15:45	[45] ApPEC Roadmap (20'+5') (25 minutes)	MONTARULI, Teresa (Universite de Geneve (CH))
16:10	[215] NuPPEC long term plan (20'+5') (25 minutes)	LEWITOWICZ, Marek (GANIL)

Coffee break (16:35-17:05)**Plenary Session (15 May 2019, 17:05-18:40)*****Tentative schedule***

time	[id] title	presenter
17:05	[47] Programs of Large European and National Labs (25'+10') (35 minutes)	CAMPANA, Pierluigi (Laboratori Nazionali di Frascati (LNF))
17:40	[48] Overview of National Inputs to the Strategy Update (25'+10') (35 minutes)	BETHKE, Siegfried (Max-Planck-Institut für Physik (DE))
18:15	[49] Education, Communication and Outreach (20'+5') (25 minutes)	ROYOLE-DEGIEUX, Perrine (CNRS)

Plenary Session: Summaries (15 May 2019, 18:40-19:30)

time	[id] title	presenter
18:40	[217] Accelerator Science and Technology (50 minutes)	BISCARI, Caterina RIVKIN, Lenny (Paul Scherrer Institut (CH))

Thursday 16 May 2019

Plenary Session: Summaries (16 May 2019, 08:30-10:30)

Tentative schedule

time	[id] title	presenter
08:30	[138] Neutrino Physics (accelerator and non-accelerator) (40 minutes)	ZITO, Marco (Université Paris-Saclay (FR)) BENTVELSEN, Stan (Nikhef National institute for subatomic physics (NL))
09:10	[85] Flavour Physics and CP violation (quarks, charged leptons and rare processes) (40 minutes)	ZOCCOLI, Antonio (Universita e INFN, Bologna (IT)) GAVELA LEGAZPI, Belen (Universidad Autonoma de Madrid (ES))
09:50	[86] Dark matter and Dark Sector (accelerator and non-accelerator dark matter, dark photons, hidden sector, axions) (40 minutes)	CARENA LOPEZ, Marcela Silvia (Fermi National Accelerator Lab. (US)) ASAI, Shoji (University of Tokyo (JP))

Coffee break (10:30-11:00)**Plenary Session: Summaries (16 May 2019, 11:00-13:00)*****Tentative schedule***

time	[id] title	presenter
11:00	[139] Beyond the Standard Model at colliders (present and future) (40 minutes)	GIUDICE, Gian (CERN) SPHICAS, Paris (CERN/Athens)
11:40	[93] Strong Interactions (perturbative and non-perturbative QCD, DIS, heavy ions) (40 minutes)	D'HONDT, Jorgen (Vrije Universiteit Brussel (BE)) REDLICH, Krzysztof (University of Wroclaw (PL))
12:20	[140] Electroweak Physics (physics of the W, Z, H bosons, of the top quark, and QED) (40 minutes)	HEINEMANN, Beate (DESY and University of Freiburg (Germany)) ELLIS, Richard Keith (University of Durham (GB))

Lunch (13:00-14:15)**Plenary Session: Summaries, Discussion and Closeout (16 May 2019, 14:15-16:00)*****Tentative schedule***

time	[id] title	presenter
14:15	[141] Instrumentation and Computing (40 minutes)	VACHON, Brigitte (McGill University, (CA)) LOU, Xinchou (Chinese Academy of Sciences (CN))
14:55	[218] Discussion and Closeout (1h 5m)	

Closed Session: Meeting of the European Strategy Group (16 May 2019, 16:00-18:30)

Friday 17 May 2019

Closed session - meeting of the Physics Preparatory Group (10:00-12:00)