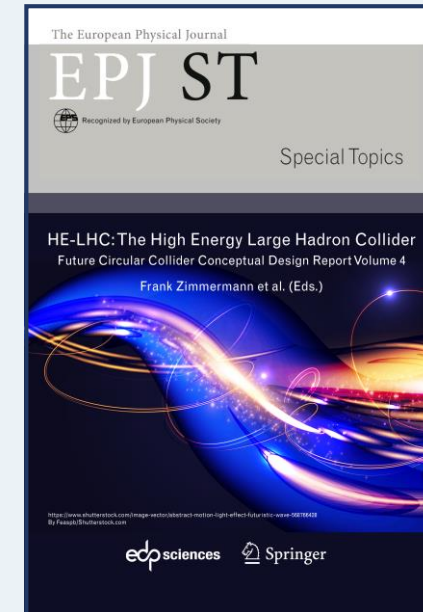
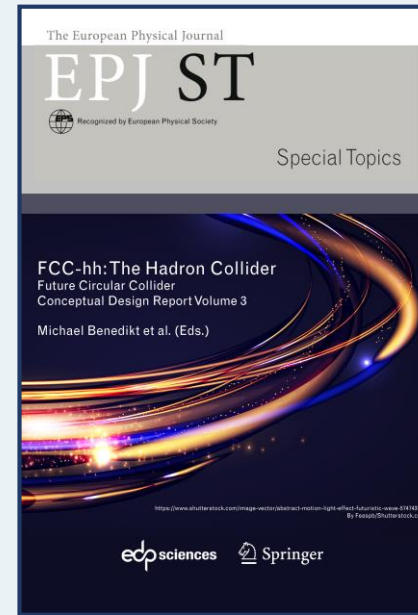
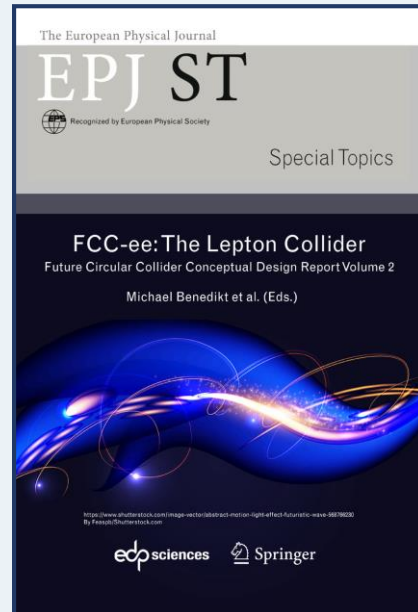


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and Future Circular Collider

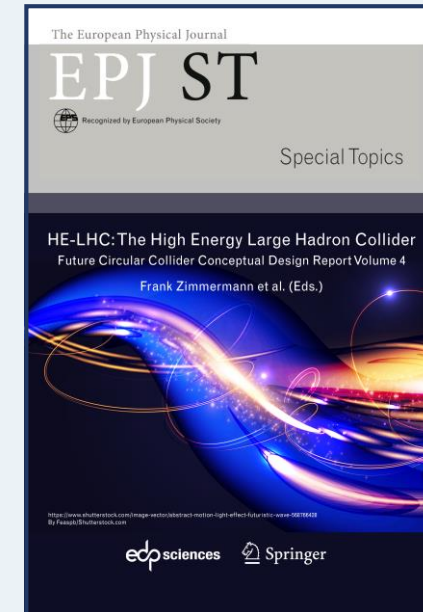
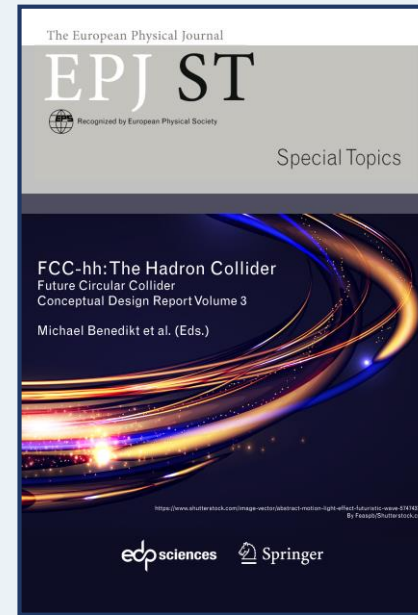
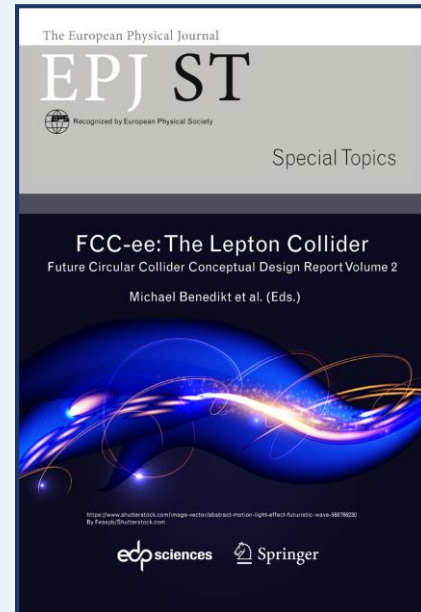


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SPRINGER NATURE

MONDAY 24 June 2019



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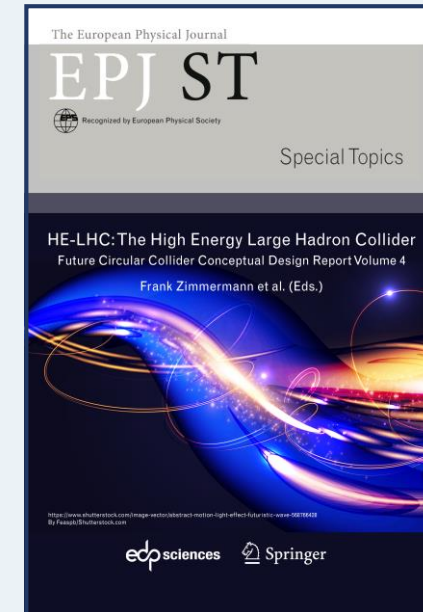
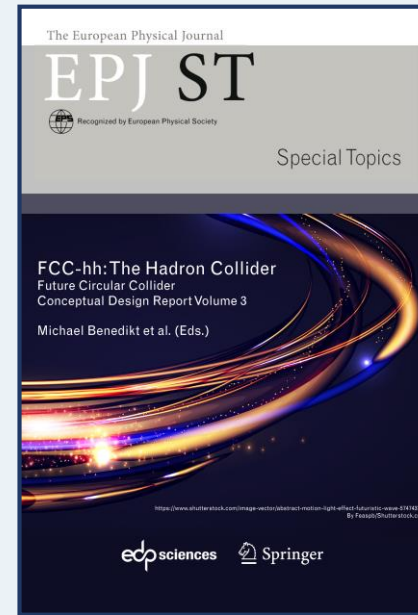
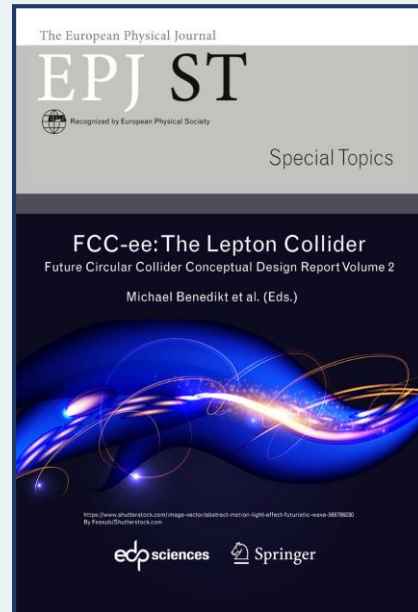


Time	BALLROOM 1+2
08:30	<u>J. D'Hondt</u> (VUB), <u>W. Burtscher</u> (CE), <u>F. Gianotti</u> (CERN): Welcome
09:00	<u>H. Van Rompuy</u> (President emeritus of the EC): Keynote talk
09:30	<u>N. Arkani-Hamed</u> (U. Princeton): FCC and the Future of Fundamental Physics
10:00	<u>M. Benedikt</u> (CERN): Overview of the Future Circular Collider study
10:30 - 11:00 BREAK	
11:00	<u>B. Dalena</u> (U. Paris-Saclay): EuroCirCol WP2 + 3 FCC-hh design
11:30	<u>F. Perez</u> (ALBA-CELLS): EuroCirCol WP4 vacuum design
12:00	<u>D. Tommasini, B. Bordini</u> (CERN): EuroCirCol WP5 16 T magnet R&D overview
12:30 – 14:00 LUNCH BREAK (Monday, 24 June 2019)	

Time	BALLROOM 1+2
14:00	<u>F. Zimmermann</u> (CERN): FCC-ee design overview
14:30	<u>A.M. Valente-Feliciano</u> (JLAB): SRF and power sources R&D overview
15:00	<u>V. Mertens</u> (CERN): FCC infrastructures and implementation
15:30 - 16:00 BREAK	
16:00	<u>K. Sequeira</u> (EC): Horizon Europe and Europe's Strategy on R&I
16:30	<u>C. Oliveira</u> (EC High Level Group of Innovators): Fundamental research as driver for innovation
17:00	<u>J. D'Hondt</u> (VUB): Update on the European Strategy for Particle Physics
17:30 - 18:00 BREAK	
18:00	CDR Presentation and Reception in room KLIMT
Monday, 24 June 2019	

SPRINGER NATURE

TUESDAY 25 June 2019



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Time	BALLROOM 1	BALLROOM 2	EVA/INNO (1 st)	CREA/EXPLO (1 st)
08:30	A. Chance (CEA): Lattice integration (20') D. Boutin (CEA): Correction schemes (20')	J. Gutleber, T. Lagrange (CERN): Welcome (15') M. Boni (European Parliament): The Challenges for Europe's R&I (15')	E. Gianfelice-Wendt (Fermi Lab): Polarization prediction for Z and W operation (20') D. Shatilov (Budker INP): Impact of beam-beam effect on beam energy and crossing angle at IP (20')	S.G. Zadeh (Rostock U.): HOM damping design studies for FCC-ee cavities (20') I. Karpov (CERN): Requirements for longitudinal HOM damping in FCC-hh (20')
09:00	B. Dalena (U. Saclay): Field Quality at injection for FCC-hh (20')	S. Berry (SKA): The SKA approach to sustainable research (20') J. Womersley (ESS): The ESS approach to sustainable research (20')	P. Janot (CERN): Measurement of the beam-beam effects on the crossing angle and CM energy at IP (20')	N. Petry (Goethe U.): Possible designs of HOM couplers for superconducting 400 MHz RF Cavities (15')
09:30	O. Boine-Frankenheim (TU Darmstadt): FCC-hh single beam intensity limitations and cures (20') S. Arsenyev (CERN): Impedance budget and stability (20')	M. Ribeiro (EC): Towards sustainable RI (15')	M. Koratzinos(MIT): Overview and status of CM energy uncertainties (30')	C. Pira (LNL-INFN): R&D of seamless elliptical cavities (20') G. J. Rosaz (CERN): Electrodeposition of copper for seamless cavity (20')

10:00 - 10:30 BREAK

Tuesday, 25 June 2019

FCC International Steering Committee: (closed session) - Grace (2nd floor)

Time	BALLROOM 1	BALLROOM 2	EVA/INNO (1 st)	CREA/EXPLO (1 st)
10:30	I. Karpov (CERN): FCC-hh: Longitudinal beam dynamics and RF requirements (15') L. Mether (EPFL): Electron cloud (15')	A. Reid (EFIS): Designing a socio economic impact framework for research infrastructures: lessons from the RI-PATH project (30')	M. Beguin (Saclay): Update on W mass measurement studies (20') M. Vinciter (Carleton University): Challenges for tau polarisation measurement (20')	A. M. Valente-Feliciano (JLab): NB film engineering with energetic condensation for tailored RF behavior (20') M. Arzeo (CERN): RF performances of superconducting coatings on copper for the FCC study (20')
11:00	R. Bruce (CERN): Status of FCC-hh collimation studies (15') J. Molson (CERN): Collimation inefficiency (15')	C. Mathieu (ESA): Socio-economic impact assessments of ESA programmes (30')	F. Palla (INFN Pisa): Challenges for EW b physics measurements (20')	D. Fonnesu (CERN): Development of a T _c test stand to analyze superconducting thin-film coatings (20') R. Valizadeh (STFC): Characterization of a nobium thin film deposited on 6 Ghz SRF cavities (20')
11:30	M. Varasteh (CERN): Cold losses and deposited power density (10') G. Gobbi (CERN): Thermo-mechanical studies of collimator robustness (15')	M. Florio (U. Milano): Social Cost Benefit Analysis of research infrastructures in physics (30')	M. Dam (U. Copenhagen): Determination of luminosity (20')	M. Chamizo LLatas (BNL): FCC-ee ERL option for low power and/or high energy (20')

12:00 – 13:30 LUNCH BREAK (Tuesday, 25 June 2019)

FCC International Steering Committee: (closed session) - Grace (2nd floor)

Time	BALLROOM 1	BALLROOM 2	EVA/INNO (1 st)	HARMONY (1 st)	CREA/EXPLO (1)
13:30	R. Martin (CERN): Optics (20') L. Van Riesen-Haupt (CERN): Alternative optics (20')	A. Bastianin (U. Milano): Findings from the LHC/HL-LHC programme (20')	S. Jadach (IFJ PAN): QED at the Z pole: Challenges (20')	F. Zimmermann (CERN): Parameter update (10')	A. E. Ivanov (CERN): Active shielding for Cryomodules (20')
14:00	C. Tambasco (EPFL): Beam-Beam effects (20') E. Cruz Alaniz (UOX JAI): Dynamic aperture Studies (20')	S. Vignetti (CSIL) Designing a RI with impact in mind (20') L. Kretschmar (WUW): Leveraging the economic potential of accelerator technologies (10')	M. Skrzypek (PAN): The e+e- -> WW process: QED exponentiation (20') M. Greco (INFN Roma): Initial state radiation for Higgs production (20')	E. Shaposhnikova (CERN): Longitudinal parameters (15') D. Amorim (CERN/U. Grenoble): Impedance Model and Beam Stability (20')	M. Jensen (ESS): Test results and Operational experience of the High Power IOT development for ESS (20')
14:30	B. Humann (TU Wien): Energy deposition in the FCC-hh EIR (20')	M. Loureiro (U. Santiago de Compostela): Rethinking the public value of science (20') R. Creszenzi (LSE): The drivers of innovative collaborations and the role of public policies (20')	C. M. Carloni Calame (INFN Pavia): Luminosity with e+e- -> gamma gamma: theory perspective (20')	M. Varasteh (CERN): Fluka simulation for the HE-LHC machine (IR7) (20') H. Pikhartova (U. London): Beam loss studies with BDSIM (20')	J. Cai (CERN): High efficiency klystrons development at CERN (20') A. Beunas (THALES): Towards a high efficiency klystron for LHC (20')

15:00 - 15:30 BREAK

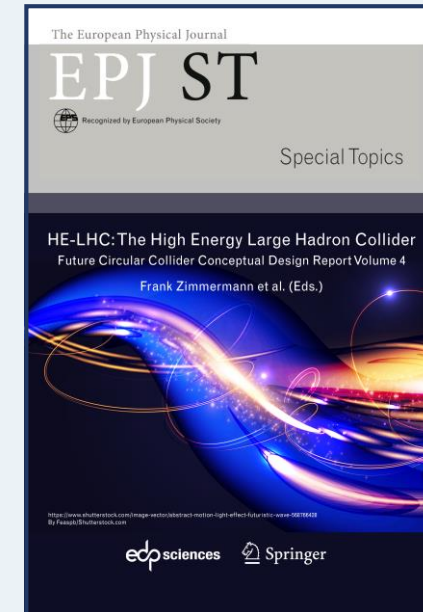
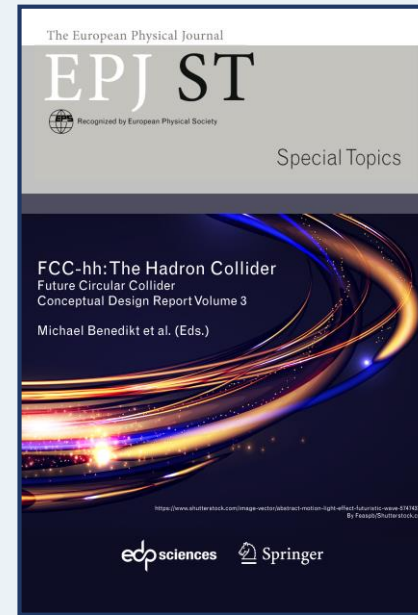
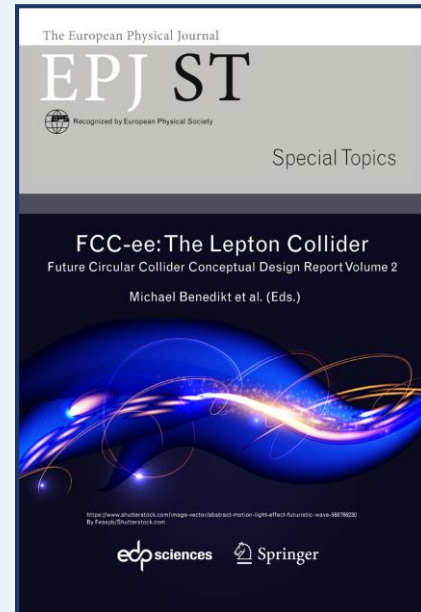
15:30-16:30 POSTER SESSION in room **KLIMT**

Time	BALLROOM 1	BALLROOM 2	EVA/INNO(1 st)	CREA/EXPLO (1 st)
15:30-16:30 POSTER SESSION KLIMT				
15:30		Economics of Science Worshop: Panel discussion (90')		
16:30	M. Boscolo (INFN Frascati): Synchrotron radiation backgrounds in the experimental insertion region of the FCC-hh (15') M. Hofer (TU Wien): Low luminosity interaction regions (15')		Z. Li (IHEP-CAS): Mixed QED-EW corrections for Higgs production (20')	J. Seeman (SLAC): SLAC/SLC 2-mile S-Band Linac (20') K. Furukawa (KEK): SuperKEKB S-band/C- band Linac (20')
17:00	J. Borburgh (CERN): Injector Design (15') A. Chmielinska (EPFL): Injection and extraction insertions (15')		M. Schott (CERN/U/. Mainz): Messages from EW tests after the Higgs discovery (20')	H.S. Kang (Pohang Lab): PAL-XFEL S-band Linac (20')
17:30	M. Schaumann (CERN): Ion option for FCC-hh (15') A. Abramov (U. London): FCC-hh heavy-ion collimation (10')	Economics of Science Workshop Reception in room KLIMT	G. Rodrigo (IFIC UV-CSIC): Casual thresholds and infrared singularities in the forest (20') Discussion (20')	T. Inagaki (RIKEN SPring8 center): The SACLA C- band linac (20') H.H. Braun (PSI): SwissFEL C-band Linac and S-band Linac for FERMI (20')

Tuesday, 25 June 2019

SPRINGER NATURE

WEDNESDAY 25 June 2019



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Time	BALLROOM 1	BALLROOM 2	EVA/INNO (1 st)	CREA/EXPLO (1 st)
08:30	<p>K. Oide (KEK): Issues for the next step (20')</p> <p>D. Shatilov (Budker INP): Beam-beam effects for 4 IP (20')</p>	<p>I. Bellafont (CERN): Study on the beam induced vacuum effects in the FCC-hh beam vacuum chamber (20')</p>	<p>M. I. Novak (MTA Wigner): Status of the SuShi septum project (20')</p>	<p>H. Ten Kate (CERN): Superconducting Detector Magnets for Particle Physics Experiments at the Future Circular Collider (30')</p>
09:00	<p>T. Charles (U. Melbourne): Low emittance tuning of FCC-ee (20')</p> <p>E. Gianfelice-Wendt (Fermi Lab): Beam polarization for energy calibration in FCCee (20')</p>	<p>L. Spallino (INFN): Material properties of relevance to cryogenic vacuum systems (20')</p> <p>R. Cimino (LNF-INFN): R and PY from candidate materials for the FCC-hh Vacuum system (20')</p>	<p>K. Sugita (GSI): Advanced design study of superconducting septum magnet for FCC (20')</p> <p>T. Kramer (CERN): FCC-hh kicker systems: status and R&D plans (injection, extraction, dilution) (20')</p>	<p>C. Neubuser (CERN): FCC-hh jet substructure studies (20')</p> <p>M. Aleksa (CERN): Liquid Argon Calorimetry for FCC-ee (20')</p>
09:30	<p>K. Heinemann (U. New Mexico): Applying a Bloch equation to Spin-Orbit Dynamics of Polarized e+e- Beams in High Energy Circular Accelerators and Storage Rings (20')</p>	<p>M. Angelucci (INFN): Photo desorption studies at the WINDY set-up at LNF (20')</p>	<p>A. Chmielinska (EPFL): New Spiral Beam Screen Design for the FCC-hh Injection Kicker Magnets (20')</p>	<p>V. Volkl (U. Innsbruck): First performance results for Liquid Argon Calorimetry for FCC-ee (20')</p>

10:00 - 10:30 BREAK

Time	BALLROOM 1	BALLROOM 2	EVA/INNO (1 st)	CREA/EXPLO (1 st)
10:30	M. Migliorati (LA SAPIENZA): Collective effects with ttbar configuration (20')	R. Valizadeh (STFC): Evaluation of LASER ablated surface engineering of copper and stainless steel for particle accelerators (20')	F. Millet (CEA): Outcome of the engineering studies for the FCC-hh cryoplants (30')	W. Riegler (CERN): FCC-hh detector overview (20')
11:00	D. Teytelman (Dimtel): Feedback scenarios (20') T. Mitsuhashi (KEK): A self-consistent analysis method in X-ray interferometer in the FCC and proposal for testing in the X-ray monitor line in the SuperKEKB (20')	R. Sirvinskaite (U. Loughborough): Recent Results on NEG Coating Characterisation (20') L. A. Gonzalez Gomez (INFN Frascati): Photodesorption Studies on FCC-hh Beam Screen Prototypes at KARA (20')	C. Kotnig (CERN): Development of a Cryogenic System for the FCC-hh Inner Triplets Cold Mass Cooling (20') S. Savelyeva (TU Dresden): Improved concept of the Helium Turbo-Brayton cycle for the FCC-hh beam screen cooling (20')	L. Pezzotti (INFN): Progress on IDEA (20') O. Viazlo (CERN): Progress on CLD (20')
11:30	A. Niemi (CERN): FCC-ee machine availability (20') K. Ohmi (KEK): SuperKEKB status and experience with collisions at large Piwinski angle (20')	M. Morrone (CERN): Update of the design and thermal mechanical study of the FCC-hh beam screen (20')	A. Vitrano (CEA): Transient conjugate heat transfer numerical simulation in superfluid helium (20')	P. Giacomelli (INFN Bologna): AIDA++ (20') Y. Onel (U. Iowa): Multiple-Readout Compensated Calorimetry R&D (1')

12:00 – 13:30 LUNCH BREAK (Wednesday, 26 June 2019)
12:00 – 13:30 FCC International Advisory Board: (closed session) Grace (2nd)

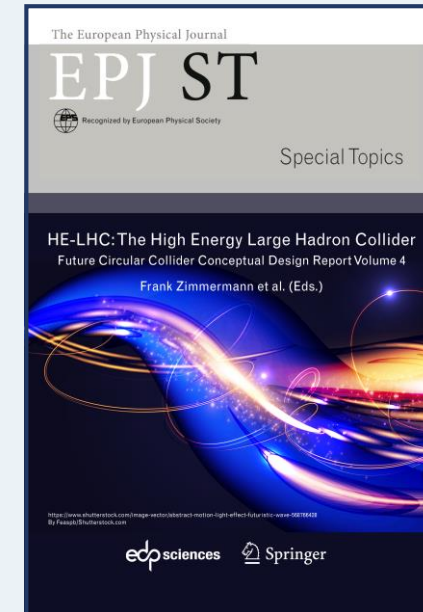
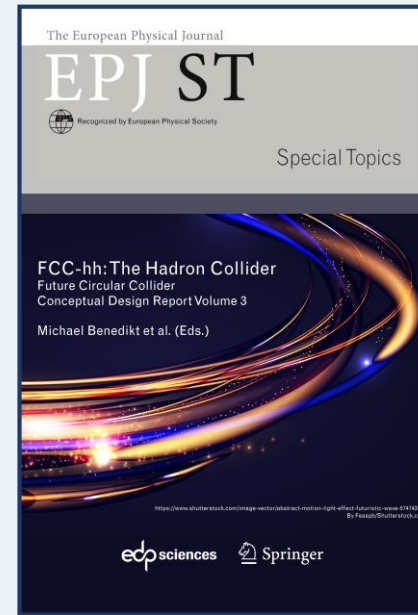
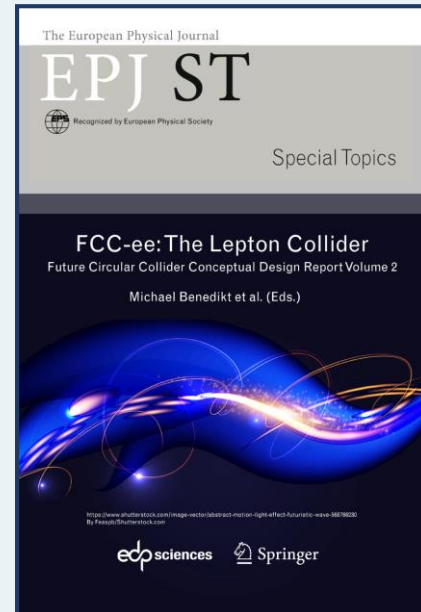
Time	VISION (8 th)	CLARITY (8 th)	EVA/INNO (1 st)	CREA/EXPLO (1 st)
13:30	E. Rochepault (Saclay): Evolution of the block-coils design (20')	R. Kersevan (CERN) : FCC-ee beam vacuum challenges, concepts and future R&D plans (20')	K. Oide (KEK): Baseline scheme (20') D. Schulte (CERN): Alternatives (20')	C. Helsens (CERN): General status and plans (15') G. A. Stewart (CERN): Common Turnkey Software Stack (25')
14:00	B. Auchmann (CERN): Evolution of the canted costheta (CCT) design (20') F. Toral (CIEMAT): Evolution of the common-coils design (20')	A. Saba (CNR-SPIN): Synthesis and study of TI-1223 Superconducting Thin Films for the CERN Future Circular Collider (FCC-hh) Beam Screen (20') P. Krkotic (Cells): RF Characterisation of HTS-CC Tapes as Alternative Coating for the FCC-hh Beam Screen (20')	M. Migliorati (LA SAPIENZA): Collective effects in the booster synchrotron (20') I. Chaikovska (LAL): Positron source for FCC-ee (20')	J. Cervantes Villanueva (CERN): Software development and deployment (25')
14:30	S. Farinon (INFN Genova): Evolution of the costheta design (20')	A. Romanov (CSIC): REBa2Cu3O7 coated conductors as a beam screen coating: Using the classical rigid-fluxon model to link surface resistance to microstructure (20')	F. Zimmermann (CERN): Damping of injection oscillations and transverse stability in the PBR (20')	V. Volkl (U. of Innsbruck): Combined reconstruction with tracker and calorimeter (25')

15:00 - 15:30 BREAK

Time	BALLROOM 1+ 2	Harmony (1 st)		
15:30	D. Vandeplassche (SCKCEN): The MYRRHA project (40')			
16:00	E. Forton (IBA-Group): Much smaller accelerators at IBA Selected news about their applications (40')			
17:00	17:00 - 17:30 BREAK			
17:30		EASITrain Coordination Committee: (closed)		
18:30		EASITrain Supervisory and Steering Board: (closed)		
20:00–22:00 BANQUET				

SPRINGER NATURE

THURSDAY 25 June 2019



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Time	BALLROOM 1	BALLROOM 2	EVA/INNO (1 st)	CREA/EXPLO(1 st)
08:30	<p>M. Boscolo (INFN Frascati): Overview of MDI issues toward the TDR (20')</p> <p>E. Levichev (Budker INP): Mechanical design of the interaction region (20')</p>	<p>D. Schoerling (CERN): Cost model (20')</p> <p>T. Salmi (Tampere U.): Magnets quench protection (20')</p>	<p>J. Gutleber (CERN): Overview of host state activities and summary of site reviews (25')</p> <p>O. Martin (MEAE): FCC Host States implementation. Institutional and administrative framework (20')</p>	<p>D. D'Enterria (CERN): QCD uncertainties in the weak mixing angle extraction from $e+e\rightarrow Z(b\bar{b})$ asymmetries (20')</p>
09:00	<p>M. Koratzinos (MIT): Final-focus quadrupoles and solenoids (20')</p>	<p>C. Lorin (U. Saclay): Main quadrupoles for the FCC (20')</p>	<p>A. Tudora (CERN): Civil engineering summary: cost drivers, risk factors, schedule for preparatory phase (20')</p> <p>R. Galler (Leoben U.): Excavation material use strategy (15')</p>	<p>S. Monteil (UCA): Prospects for new studies in the flavour sector (20')</p> <p>F. A. Bishara (DESY): BSM theory prospects in flavour sector (20')</p>
09:30	<p>D. el Khechen (CERN): Beam-beam blow-up issues (20')</p> <p>E. Perez (CERN): Impact of beam-beam effects on luminosity measurement (20')</p>	<p>A. Chakraborti (Tampere U.): Industrialization of 16T Nb₃Sn magnet production for HE-LHC and FCC (20')</p>	<p>M. Haas (Leoben U.): A first overview of the legal and technical framework for the reuse of FCC's proposed excavated spoil material (10')</p>	<p>T. Rauh (U. Bern): Cross section and differential distributions for top quarks near the production threshold (20')</p>

10:00 - 10:30 BREAK

12:00-13:30 EASISchool 3 preparation: (closed) - Grace (2nd)

Time	BALLROOM 1	BALLROOM 2	EVA/INNO (1 st)	CREA/EXPLO(1 st)
10:30	<p>M. Luckhof (Hamburg U.): Synchrotron radiation background studies (20')</p> <p>H. Burkhardt (CERN): Beam losses at IR (20')</p>	<p>X. Peng (Hyper Tech R.): Recent progress on APC in multi-filamentary Nb3Sn wires (20')</p> <p>S. Balachandran (MagLab): High Jc Nb3Sn conductor via Hf addition: a route for achieving the FCC conductor targets (20')</p>	<p>T. Otto (CERN): Safety topics requiring further investigation (20')</p> <p>O. Rios Rubiras (CERN): Study of HE-LHC ventilation strategy in case of fire (20')</p>	<p>F. A. Bishara (DESY): FCC-hh: Boosted Higgs analyses (20')</p> <p>G. Durieux (Technion): Complementarities between Higgs and electroweak measurements at future lepton colliders (20')</p>
11:00	<p>E. Leogrande (CERN): Improvement of detector performance with smaller central IP beam pipe (20')</p> <p>A. Novokhatski (SLAC): HOM and heating with smaller central IP beam pipe (20')</p>	<p>S. Hopkins (CERN): Analysis of FCC Nb3Sn Conductor at CERN (15')</p> <p>V. PANTSYRNY (Bochvar I.): Development of Nb3Sn for FCC In Russia (15')</p>	<p>J. Hunt (CERN): Update on R2E and heat load simulations (20')</p>	<p>C. C. Degrande (UCLouvain): New physics in double Higgs production (20')</p>
11:30	<p>M. Boscolo (INFN Frascati): Synchrotron radiation with smaller central IP beam (20')</p>	<p>J. Kim (Kiswire AT): Development of Nb3Sn for FCC in Korea (15')</p>	<p>M. Jones (CERN): Geodetic Infrastructure & Alignment – Planning and Studies (20')</p>	<p>G. Ortona (CNRS): Prospects for Higgs self-couplings (20')</p>

12:00 – 13:30 LUNCH BREAK (Thursday, 27 June 2019)
12:00-13:30 EASISchool 3 preparation: (closed session) – Grace 2nd floor

Time	BALLROOM 1	BALLROOM 2	EVA/INNO (1 st)	CREA/EXPLO (1s)
13:30	J. Keintzel (TU Wien): HE-LHC Lattice Design and Optics Integration (20')	T. Ogitsu (KEK): Development of Nb3Sn for FCC in Japan (15') C. Buehler (Bruker EST): Development of Nb3Sn for FCC at BRUKER (15') B. Bordini (CERN): Electro-mechanical properties of Nb3Sn conductors for application to high-field magnets (15')	T. Kramer (CERN): HE-LHC dump system: status and R&D plans (kickers, septa, protection devices, block) (20')	M. P. Mccullough (CERN): ALPs at future colliders (20')
14:00	M. Hofer (TU Wien): HE-LHC nonlinear correctors & dynamic aperture (20') L. Van Riesen-Haupt (CERN): HE-LHC IR Optics (20')	M. Eisterer (TU Wien): Characterization of FCC conductors at TU Vienna (15') C. Senatore (U. Geneva): Recent progress on HTS conductor for high-field magnets: critical surface studies (15')	A. Apyan (CERN): FCC-ee beam dump system concept and technological challenges (20') C. Wiesner (CERN): Status of studies on beam impact & machine protection challenges (20')	C. Helsens (CERN): Heavy resonances (20')
14:30	M. P. Crouch (CERN): HE-LHC collimation system (20')	A. Usoskin (Bruker HTS): Recent progress and trends in development of high-field HTS coated conductors (15') M. Putti (U. Genova): Recent progress on iron-based superconductors: potentials for high-field applications (15') D. Larbalestier (MagLab): Recent progress on the development of high performance Bi-2212 wires and coils (overtime until 15:30)	S. Gilardoni (CERN): Simulation tools for beam dump blocks and intercepting protection devices (20')	K. Terashi (U. Tokyo): Studying gaugino masses in supersymmetric model at future 100 TeV pp collider (20')

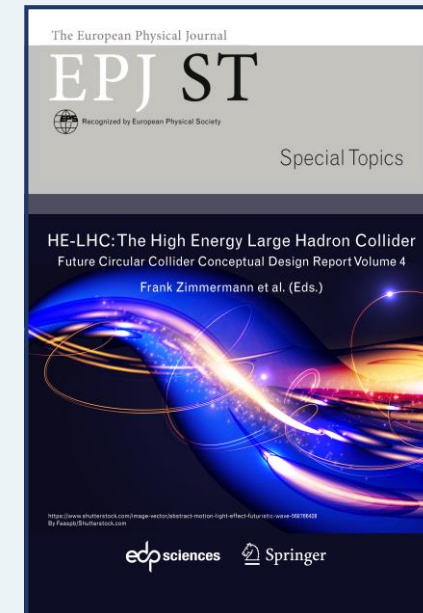
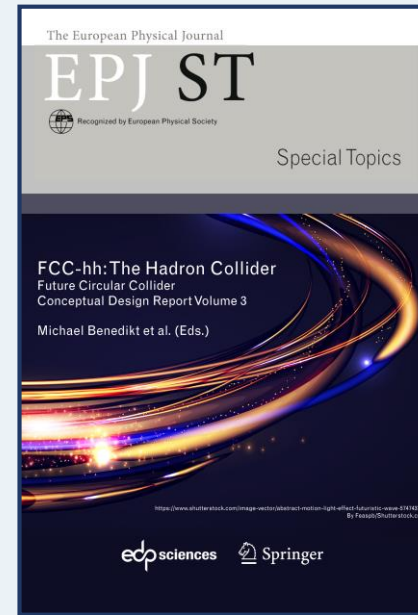
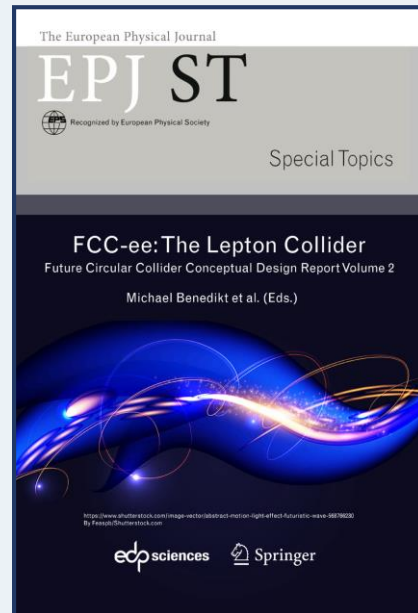
15:00 - 15:30 BREAK

Time	BALLROOM 1	BALLROOM 2	EVA/INNO (1 st)	CREA/EXPLO (1 st)
15:30	M. Klein (U. Liverpool): Introduction and Overview (20') O. Bruning (CERN): ERL: Overview and Cost (20')	S. Prestemon (LBNL): The US-MDP program (20') A. Zlobin (Fermilab): Assembly and First Test of the US-MDP Nb3Sn Dipole Demonstrator (20')	T. Dodington (CERN): Status of concepts and main technologies for the FCC-hh beam instrumentation systems (20')	EASITrain: Early Stage Researchers' work status
16:00	W. Kaabi (CNRS-IN2P3): PERLE Status and Plans (20')	R. U. Valente (LASA-INFN): The INFN dipole model for the FCC (20') E. Rochepault (U. P. Saclay): The CEA dipole model for the FCC (20')	T. Lefevre (CERN): Challenges, concepts and R&D plans for the FCC-ee beam instrumentation systems (20') A. Verweij (CERN): Status of FCC main magnet circuit layouts, powering and protection (20')	EASITrain: Early Stage Researchers' work status
16:30	K. D. J. Andre (U. Liverpool): Progress on the eh Interaction Region (15') E. Cruz Alaniz (U. OX JAI): The Interation Region Design (protons) (15')	A. Kovalenko (JINR): Design Status of a Fast Cycled Low Loss 6 T Model Dipole Cooling at 1.9 K (20')	F. Cerutti (CERN): Status of radiation environment assessment in the FCC-hh and FCC-ee machines (20')	EASITrain: Early Stage Researchers' work status
17:00	FREE			
17:30		FCC and EuroCirCol Collaboration Boards		

Thursday, 27 June 2019

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ADVANCING
DISCOVERY

Time	BALLROOM 1+2
08:30	A. Chance (CEA): FCC-hh machine design summary(20') T. Charles (U. Melbourne): FCC-ee machine design summary (20')
09:00	J. Gutleber (CERN): Infrastructure & operation summary (20')
09:30	A. Siemko (CERN): Technologies summary (20') D. Schoerling (CERN): Magnets summary (20')
10:00	F. Peauger (CERN): RF summary (20')
10:30 - 11:00 BREAK	
11:00	M. Klein (U. Liverpool): FCC-eh summary (15') D. D'Enterria (CERN): Heavy Ions summary (15')
11:30	C. Helsens (CERN): FCC-hh summary (30')
12:00	P. Janot (CERN): FCC-ee summary (30')
12:30 – 13:00 M. Benedikt CLOSING Remarks (Friday, 28 June 2019)	