

Seattle Snowmass Summer Meeting 2022

Monday, 18 July 2022

Energy Frontier: EF - Strong Interactions I - 238 (08:00 - 12:00)

-Conveners: Michael Begel; Pavel Nadolsky; Stefan Hoeche; Huey-Wen Lin

time	[id] title	presenter
08:00	[339] The strong coupling: State-of-the-art and the decade ahead	D'ENTERRIA, David
08:35	[647] Discussions of Strong Coupling Constant for QCD Report	
08:55	[340] Overview of the Proton Structure at the Precision Frontier	XIE, Keping
09:30	[343] QCD at a Forward Physics Facility at the High-Luminosity LHC	RENO, Mary Hall
10:05	Coffee Break	
10:35	[341] Open Questions in Perturbative and Nonperturbative Diffractive QCD	STRIKMAN, Mark
11:10	[342] QCD report discussion	

Energy Frontier: Higgs and BSM I - 332 (08:00 - 12:00)

time	[id] title	presenter
08:00	[332] CP violation at future colliders	GRITSAN, Andrei
08:30	[333] HL-LHC Results	BHATTACHARYA, Saptaparna
09:00	[334] Discussion of experimental portion of EF01/02 report	OJALVO, Isobel
09:45	[335] Discussion of theory portion of EF01/02 report	MEADE, Patrick
10:30	Break	
10:50	[338] EF08 Model Dependent Searches introduction	LIPELES, Elliot
11:10	[336] Direct searches at hadron colliders	ENO, Sarah
11:35	[337] Direct searches at lepton colliders	BERGGREN, Mikael

Wednesday, 20 July 2022

Energy Frontier: Top I - 210 (08:00 - 12:00)

-Conveners: Doreen Wackerath; Reinhard Schwienhorst

time	[id] title	presenter
08:30	[375] Status and outlook for top quark coupling measurements	DURIEUX, Gauthier
09:00	[376] Top cross-section measurements	DEMINA, Regina
09:30	[377] Top-pair and single top production at hadron colliders	KIDONAKIS, Nikolaos
10:00	[378] Coffee Break	
10:30	[379] Top quark mass at lepton colliders	SIMON, Frank
11:00	[380] Overview of spin correlation and FCNC in top	BAKSHI, Amandeep Singh
11:30	[381] Discussion of Vision for top quark physics and heavy flavor production	WACKEROTH, Doreen SCHWIENHORST, Reinhard

Energy Frontier: BSM II - 220 (08:00 - 10:00)

-Conveners: Zhen Liu; Tulika Bose; Simone Pagan Griso

time	[id] title	presenter
08:00	[382] Introduction	PAGAN GRISO, Simone BOSE, Tulika LIU, Zhen
08:10	[383] New Bosons and Heavy Resonances	HARRIS, Robert
08:35	[384] New Fermions	HOGAN, Julie
09:00	[386] LLPs: overview of main results in the report	ALIMENA, Juliette
09:10	[387] LLPs: interplay with instrumentation frontier	PEÑA, Cristián PEÑA, Cristián
09:25	[388] LLPs: common discussion	
09:35	[389] Panel: strengthen the main messages of the EF BSM report -- feedback from community	ROBINSON, Dean WILLOCQ, Stephane KULKARNI, Suchita HOLMES, Tova

Energy Frontier: EWK I - 130 (08:00 - 12:00)

-Conveners: Ayres Freitas; Alberto Belloni

time	[id] title	presenter
08:00	[390] Longitudinally polarized ZZ scattering at the Muon Collider	YANG, Tianyi
08:15	[391] Vector Boson Scattering processes: Status and prospects	GALLINARO, Michele
08:30	[392] Electroweak Fragmentations/Parton Showers at high energies	XIE, Keping
08:50	[393] Anomalous quartic gauge couplings at a muon collider	KHODA, Elham E
09:10	[394] Sensitivity to longitudinal vector boson scattering in $W^\pm W^\pm jj$ at future hadron colliders	NEDIC, Luka
09:25	[395] Analysis of Higgs production in the VBF-VH channel at the LHC	PARANJAPE, Chaitanya

09:40	[396] EW restoration in at the LHC and beyond	LEWIS, Ian
09:55	[397] Coffee Break	
10:25	[398] Precision electroweak physics at the LHeC and FCC-eh	BRITZGER, Daniel
10:40	[399] Precise electroweak measurements at ILC	SUEHARA, Taikan
11:00	[400] Enabling precision EW measurements at high energy e+e- colliders with in situ center-of-mass energy measurements	WILSON, Graham
11:20	[401] Measuring the tau polarisation at ILC	YUMINO, Keita
11:40	[402] Electroweak physics at the Belle II/SuperKEKB beam polarization upgrade	RONEY, John Michael

Thursday, 21 July 2022

Energy Frontier: EWK II - 210 (08:00 - 12:00)

-Conveners: Ayres Freitas; Alberto Belloni

time	[id] title	presenter
08:00	[360] Higgs/EW Fit at (HL-)LHC & muon colliders	DE BLAS, Jorge
08:25	[361] Higgs/EW Fit at future e+e- colliders	PESKIN, Michael
08:50	[362] SMEFT Fit for top-quark sector	MIRALLES, Victor
09:15	[363] SMEFT fit for 4-fermion & CP-violating interactions	DU, Yong
09:40	[364] General discussion on global fits for Snowmass	
10:00	[365] Coffee break	
10:30	[366] Discussion of EWK report	

Energy Frontier: Dark Matter Discussion - 110 (10:00 - 12:00)

time	[id] title	presenter
10:00	[367] Minimal WIMP	LIU, Zhen
10:35	[368] Invisible Higgs	BOYE, Diallo
11:00	[369] Simplified models of BSM DM mediation	PACHAL, Katherine
11:30	[370] Beyond WIMP DM models	KULKARNI, Suchita KULKARNI, Suchita

Friday, 22 July 2022

Energy Frontier: BSM IV - 102 (08:00 - 09:00)

time	[id] title	presenter
08:00	[344] Discussion of BSM Report and Conclusion Writing	PAGAN GRISO, Simone BOSE, Tulika LIU, Zhen

Energy Frontier: BSM V - 102 (09:00 - 10:00)

time	[id] title	presenter
09:00	[345] Discussion of BSM Report and Conclusion Writing (continued)	LIPELES, Elliot HIRSCHAUER, James SHAH, Nausheen

Saturday, 23 July 2022

Energy Frontier: Discussion and Summaries - 130 (08:00 - 12:00)

-Conveners: Meenakshi Narain; Laura Reina; Alessandro Tricoli

time	[id] title	presenter
08:00	[346] Energy Frontier Overview	NARAIN, Meenakshi
08:15	[347] Physics at the HL-LHC with ATLAS and CMS	DICKINSON, Jennet
08:35	[348] Higgs Report	VERNIERI, Caterina OJALVO, Isobel MEADE, Patrick DAWSON, Sally
09:05	[349] Top Quark Report	WACKEROTH, Doreen SCHWIENHORST, Reinhard
09:25	[350] Electroweak Report	BELLONI, Alberto FREITAS, Ayres TIAN, Junping
09:45	[351] Strong Interactions Report	ROYON, Christophe LIN, Huey-Wen BEGEL, Michael SCHMITT, Michael NADOLSKY, Pavel HOECHE, Stefan
10:15	[352] Coffee Break	
10:45	[353] BSM Report	DOGLIONI, Caterina LIPELES, Elliot HIRSCHAUER, James WANG, Liantao SHAH, Nausheen PAGAN GRISO, Simone BOSE, Tulika LIU, Zhen
11:25	[354] Discussion of Energy Frontier Report Vision	REINA, Laura