

Seattle Snowmass Summer Meeting 2022

Monday, July 18, 2022

Energy Frontier: EF - Strong Interactions I - 238 (8:00 AM - 12:00 PM)

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

time	[id] title	presenter
8:00 AM	[339] The strong coupling: State-of-the-art and the decade ahead	D'ENTERRIA, David
8:35 AM	[347] Discussions of Strong Coupling Constant for QCD Report	
8:55 AM	[340] Overview of the Proton Structure at the Precision Frontier	XIE, Keping
9:30 AM	[343] QCD at a Forward Physics Facility at the High-Luminosity LHC	RENO, Mary Hall
10:05 AM	Coffee Break	
10:35 AM	[341] Open Questions in Perturbative and Nonperturbative Diffractive QCD	STRIKMAN, Mark
11:10 AM	[342] QCD report discussion	

Energy Frontier: Higgs and BSM I - 332 (8:00 AM - 12:00 PM)

time	[id] title	presenter
8:00 AM	[332] CP violation at future colliders	GRITSAN, Andrei
8:30 AM	[333] HL-LHC Results	BHATTACHARYA, Saptaparna
9:00 AM	[334] Discussion of experimental portion of EF01/02 report	OJALVO, Isobel
9:45 AM	[335] Discussion of theory portion of EF01/02 report	MEADE, Patrick
10:30 AM	Break	
10:50 AM	[338] EF08 Model Dependent Searches introduction	LIPELES, Elliot
11:10 AM	[336] Direct searches at hadron colliders	ENO, Sarah
11:35 AM	[337] Direct searches at lepton colliders	BERGGREN, Mikael

Wednesday, July 20, 2022

Energy Frontier: Top I - 210 (8:00 AM - 12:00 PM)

-Conveners: Doreen Wackerath; Reinhard Schwienhorst

time	[id] title	presenter
8:30 AM	[M75] Status and outlook for top quark coupling measurements	DURIEUX, Gauthier
9:00 AM	[M76] Top cross-section measurements	DEMINA, Regina
9:30 AM	[M77] Top-pair and single top production at hadron colliders	KIDONAKIS, Nikolaos
10:00 AM	[M78] Coffee Break	
10:30 AM	[M79] Top quark mass at lepton colliders	SIMON, Frank
11:00 AM	[M80] Overview of spin correlation and FCNC in top	BAKSHI, Amandeep Singh
11:30 AM	[M81] Discussion of Vision for top quark physics and heavy flavor production	WACKEROTH, Doreen SCHWIENHORST, Reinhard

Energy Frontier: BSM II - 220 (8:00 AM - 10:00 AM)

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

time	[id] title	presenter
8:00 AM	[M82] Introduction	PAGAN GRISO, Simone BOSE, Tulika LIU, Zhen
8:10 AM	[M83] New Bosons and Heavy Resonances	HARRIS, Robert
8:35 AM	[M84] New Fermions	HOGAN, Julie
9:00 AM	[M86] LLPs: overview of main results in the report	ALIMENA, Juliette
9:10 AM	[M87] LLPs: interplay with instrumentation frontier	PEÑA, Cristián PEÑA, Cristián
9:25 AM	[M88] LLPs: common discussion	
9:35 AM	[M89] 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 (8:00 AM - 12:00 PM)

-Conveners: Ayres Freitas; Alberto Belloni

time	[id] title	presenter
8:00 AM	[M90] Longitudinally polarized ZZ scattering at the Muon Collider	YANG, Tianyi
8:15 AM	[M91] Vector Boson Scattering processes: Status and prospects	GALLINARO, Michele
8:30 AM	[M92] Electroweak Fragmentations/Parton Showers at high energies	XIE, Keping
8:50 AM	[M93] Anomalous quartic gauge couplings at a muon collider	KHODA, Elham E
9:10 AM	[M94] Sensitivity to longitudinal vector boson scattering in $W^\pm W^\pm jj$ at future hadron colliders	NEDIC, Luka
9:25 AM	[M95] Analysis of Higgs production in the VBF-VH channel at the LHC	PARANJAPE, Chaitanya

9:40 AM	A96] EW restoration in at the LHC and beyond	LEWIS, Ian
9:55 AM	A97] Coffee Break	
10:25 AM	A98] Precision electroweak physics at the LHeC and FCC-eh	BRITZGER, Daniel
10:40 AM	A99] Precise electroweak measurements at ILC	SUEHARA, Taikan
11:00 AM	A100] Enabling precision EW measurements at high energy e+e- colliders with in situ center-of-mass energy measurements	WILSON, Graham
11:20 AM	A101] Measuring the tau polarisation at ILC	YUMINO, Keita
11:40 AM	A102] Electroweak physics at the Belle II/SuperKEKB beam polarization upgrade	RONEY, John Michael

Thursday, July 21, 2022

Energy Frontier: EWK II - 210 (8:00 AM - 12:00 PM)

-Conveners: Ayres Freitas; Alberto Belloni

time	[id] title	presenter
8:00 AM	[A60] Higgs/EW Fit at (HL-)LHC & muon colliders	DE BLAS, Jorge
8:25 AM	[A61] Higgs/EW Fit at future e+e- colliders	PESKIN, Michael
8:50 AM	[A62] SMEFT Fit for top-quark sector	MIRALLES, Victor
9:15 AM	[A63] SMEFT fit for 4-fermion & CP-violating interactions	DU, Yong
9:40 AM	[A64] General discussion on global fits for Snowmass	
10:00 AM	[A65] Coffee break	
10:30 AM	[A66] Discussion of EWK report	

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

time	[id] title	presenter
10:00 AM	[A67] Minimal WIMP	LIU, Zhen
10:35 AM	[A68] Invisible Higgs	BOYE, Diallo
11:00 AM	[A69] Simplified models of BSM DM mediation	PACHAL, Katherine
11:30 AM	[A70] Beyond WIMP DM models	KULKARNI, Suchita KULKARNI, Suchita

Friday, July 22, 2022

Energy Frontier: BSM IV - 102 (8:00 AM - 9:00 AM)

time	[id] title	presenter
8:00 AM	[144] Discussion of BSM Report and Conclusion Writing	PAGAN GRISO, Simone BOSE, Tulika LIU, Zhen

Energy Frontier: BSM V - 102 (9:00 AM - 10:00 AM)

time	[id] title	presenter
9:00 AM	[145] Discussion of BSM Report and Conclusion Writing (continued)	LIPELES, Elliot HIRSCHAUER, James SHAH, Nausheen

Saturday, July 23, 2022

Energy Frontier: Discussion and Summaries - 130 (8:00 AM - 12:00 PM)

-Conveners: Meenakshi Narain; Laura Reina; Alessandro Tricoli

time	[id] title	presenter
8:00 AM	[146] Energy Frontier Overview	NARAIN, Meenakshi
8:15 AM	[147] Physics at the HL-LHC with ATLAS and CMS	DICKINSON, Jennet
8:35 AM	[148] Higgs Report	VERNIERI, Caterina OJALVO, Isobel MEADE, Patrick DAWSON, Sally
9:05 AM	[149] Top Quark Report	WACKEROTH, Doreen SCHWIENHORST, Reinhard
9:25 AM	[150] Electroweak Report	BELLONI, Alberto FREITAS, Ayres TIAN, Junping
9:45 AM	[151] Strong Interactions Report	ROYON, Christophe LIN, Huey-Wen BEGEL, Michael SCHMITT, Michael NADOLSKY, Pavel HOECHE, Stefan
10:15 AM	[152] Coffee Break	
10:45 AM	[153] BSM Report	DOGLIONI, Caterina LIPELES, Elliot HIRSCHAUER, James WANG, Liantao SHAH, Nausheen PAGAN GRISO, Simone BOSE, Tulika LIU, Zhen
11:25 AM	[154] Discussion of Energy Frontier Report Vision	REINA, Laura