

ACAT 2019

Monday, March 11, 2019

Plenary: Opening (9:00 AM - 10:30 AM)

-Conveners: Federico Carminati

time	[id] title	presenter
9:00 AM	[M91] Welcome to ACAT 2019 in Saas Fee!	CARMINATI, Federico
9:10 AM	[M92] Denis Perret-Gallix (1949-2018)	WERLEN, Monique
9:30 AM	[M88] Computer algebra in physics research: algorithms, systems and modern developments	POSLAVSKII, Stanislav
10:00 AM	[M83] Using Deep Learning in Ultra-High Energy Cosmic Ray Experiments	Dr KALASHEV, Oleg

Plenary: Plenary (11:00 AM - 12:30 PM)

-Conveners: Fons Rademakers

time	[id] title	presenter
11:00 AM	[P90] Machine learning for an X-ray FEL	RATNER, Daniel
11:30 AM	[P94] Computations in Laser Particle Acceleration: heterogenous, parallel computing for physicists	MICHAEL, Bussmann
12:00 PM	[P95] Implicit cause models	RANGANATH, Rajesh

Tuesday, March 12, 2019

Plenary (9:00 AM - 10:40 AM)

-Conveners: Maria Girone

time	[id] title	presenter
9:00 AM	[P06] Keynote talk: Probabilistic Programming and Inference in Particle Physics	GUNES BAYDIN, Atilim
9:40 AM	[P07] HEP.QPR Project: Quantum Pattern Recognition for Charged Particle Tracking	GRAY, Heather
10:10 AM	[P08] RISC-V based, silicon proven open-source processors from the PULP project	Dr GÜRKAYNAK, Frank K.

Plenary (11:00 AM - 12:30 PM)

-Conveners: Andrey Arbuzov

time	[id] title	presenter
11:00 AM	[P10] Generative Models	REZENDE, Danilo
11:30 AM	[P11] GPU usage in theoretical calculations	JONES, Stephen Philip
12:00 PM	[P14] Decoding the nature of Dark matter at current and future experiments	BELYAEV, Alexander

Wednesday, March 13, 2019

Plenary (9:00 AM - 10:40 AM)

-Conveners: David Britton

time	[id] title	presenter
9:00 AM	A12 [12] Keynote talk: The future of HEP computing	BRUN, Rene
9:40 AM	A13 [13] Computing Architectures in the HL-LHC era	CALAFIURA, Paolo
10:10 AM	A19 [19] Making HPC friendly for scientists	ALAM, Sadaf

Plenary (11:00 AM - 12:30 PM)

-Conveners: Jerome LAURET

time	[id] title	presenter
11:00 AM	A13 [13] The STEM paradox: Factors affecting diversity in STEM fields	Dr CHERNEY, Isabelle D
11:20 AM	A14 [14] Round table discussion	
12:00 PM	P15 [15] Neuroscience and the Future of Computing	SCHUERMAN, Felix

Thursday, March 14, 2019

Plenary (9:00 AM - 10:40 AM)

-Conveners: Gudrun Heinrich

time	[id] title	presenter
9:00 AM	[P16] Keynote talk: Constraining effective field theories with machine learning	BREHMER, Johann
9:40 AM	[P17] Beyond the Roadmap: HL-LHC HEP Software	WATTS, Gordon
10:10 AM	[P18] Automatic Differentiation and Deep Learning	CHINTALA, Soumith

Plenary (11:00 AM - 12:30 PM)

-Conveners: Gang CHEN

time	[id] title	presenter
11:00 AM	[P15] TrackML : a tracking Machine Learning challenge	VLIMANT, Jean-Roch
11:20 AM	[P16] Round table: Machine Learning	
12:00 PM	[P19] Higher-order QED contributions to the lepton anomalous magnetic moments	NIO, Makiko

Friday, March 15, 2019

Plenary (9:00 AM - 10:30 AM)

-Conveners: Gordon Watts

time	[id] title	presenter
9:00 AM	[P20] Machine learning in cosmology	LANUSSE, Francois
9:30 AM	[P21] Computational challenges for Generators	BUCKLEY, Andy
10:00 AM	[P22] Machine Learning in Neutrino Physics	TERAO, Kazuhiro

Plenary (11:00 AM - 12:50 PM)

-Conveners: Monique Werlen

time	[id] title	presenter
11:00 AM	[P27] Best Track 1 poster: Physics and computing performance of reconstruction algorithms for the GPU High Level Trigger 1 of LHCb	VOM BRUCH, Dorothea
11:10 AM	[P28] Best Track 2 poster: Tracking performance for long living particles at LHCb	GARCIA MARTIN, Luis Miguel
11:20 AM	[P29] Track 1 summary	MENDEZ LORENZO, Patricia
11:35 AM	[P30] Track 2 Summary	USTYUZHANIN, Andrey
11:50 AM	[P31] Track 3 Summary	RUIJL, Ben
12:05 PM	[P32] ACAT 2019 Summary	WATTS, Gordon
12:20 PM	[P33] Thank you and good bye	CARMINATI, Federico