ACAT 2019

Monday 11 March 2019

Plenary: Opening (09:00 - 10:30)

   -Conveners: Federico Carminati

time	[id] title	presenter
09:00	[491] Welcome to ACAT 2019 in Saas Fee!	CARMINATI, Federico
09:10	[492] Denis Perret-Gallix (1949-2018)	WERLEN, Monique
09:30	[488] Computer algebra in physics research: algorithms, systems and modern developments	POSLAVSKII, Stanislav
10:00	[283] Using Deep Learning in Ultra-High Energy Cosmic Ray Experiments	Dr KALASHEV, Oleg

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

   -Conveners: Fons Rademakers

time	[id] title	presenter
11:00	[490] Machine learning for an X-ray FEL	RATNER, Daniel
11:30	[504] Computations in Laser Particle Acceleration: heterogenous, parallel computing for physicists	MICHAEL, Bussmann
12:00	[505] Implicit cause models	RANGANATH, Rajesh

Tuesday 12 March 2019

Plenary (09:00 - 10:40)

-Conveners: Maria Girone

time	[id] title	presenter
09:00	[506] Keynote talk: Probabilistic Programming and Inference in Particle Physics	GUNES BAYDIN, Atilim
09:40	[507] HEP.QPR Project: Quantum Pattern Recognition for Charged Particle Tracking	GRAY, Heather
10:10	[508] RISC-V based, silicon proven open-source processors from the PULP project	Dr GÜRKAYNAK, Frank K.

Plenary (11:00 - 12:30)

-Conveners: Andrey Arbuzov

time	[id] title	presenter
11:00	[510] Generative Models	REZENDE, Danilo
11:30	[511] GPU usage in theoretical calculations	JONES, Stephen Philip
12:00	[514] Decoding the nature of Dark matter at current and future experiments	BELYAEV, Alexander

Wednesday 13 March 2019

Plenary (09:00 - 10:40)

  -Conveners: David Britton

time	[id] title	presenter
09:00	[512] Keynote talk: The future of HEP computing	BRUN, Rene
09:40	[513] Computing Architectures in the HL-LHC era	CALAFIURA, Paolo
10:10	[509] Making HPC friendly for scientists	ALAM, Sadaf

Plenary (11:00 - 12:30)

  -Conveners: Jerome LAURET

time	[id] title	presenter
11:00	[493] The STEM paradox: Factors affecting diversity in STEM fields	Dr CHERNEY, Isabelle D
11:20	[494] Round table discussion	
12:00	[515] Neuroscience and the Future of Computing	SCHUERMANN, Felix

Thursday 14 March 2019

Plenary (09:00 - 10:40)

-Conveners: Gudrun Heinrich

time	[id] title	presenter
09:00	[516] Keynote talk: Constraining effective field theories with machine learning	BREHMER, Johann
09:40	[517] Beyond the Roadmap: HL-LHC HEP Software	WATTS, Gordon
10:10	[518] Automatic Differentiation and Deep Learning	CHINTALA, Soumith

Plenary (11:00 - 12:30)

-Conveners: Gang CHEN

time	[id] title	presenter
11:00	[495] TrackML : a tracking Machine Learning challenge	VLIMANT, Jean-Roch
11:20	[496] Round table: Machine Learning	
12:00	[519] Higher-order QED contributions to the lepton anomalous magnetic moments	NIO, Makiko

Friday 15 March 2019

Plenary (09:00 - 10:30)

   -Conveners: Gordon Watts

time	[id] title	presenter
09:00	[520] Machine learning in cosmology	LANUSSE, Francois
09:30	[521] Computational challenges for Generators	BUCKLEY, Andy
10:00	[522] Machine Learning in Neutrino Physics	TERAO, Kazuhiro

Plenary (11:00 - 12:50)

   -Conveners: Monique Werlen

time	[id] title	presenter
11:00	[497] 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	[498] Best Track 2 poster: Tracking performance for long living particles at LHCb	GARCIA MARTIN, Luis Miguel
11:20	[499] Track 1 summary	MENDEZ LORENZO, Patricia
11:35	[500] Track 2 Summary	USTYUZHANIN, Andrey
11:50	[501] Track 3 Summary	RUIJL, Ben
12:05	[502] ACAT 2019 Summary	WATTS, Gordon
12:20	[503] Thank you and good bye	CARMINATI, Federico