

HSF WLCG Virtual Workshop

Thursday, 19 November 2020

Software: Introduction (16:00 - 16:10)

-Conveners: Graeme A Stewart; Michel Jouvin

time	[id] title	presenter
16:00	[108] Workshop Introduction	JOUVIN, Michel

Software: Other Communities (16:10 - 16:40)

-Conveners: Graeme A Stewart; Michel Jouvin

time	[id] title	presenter
16:10	[33] Future Trends in Nuclear Physics SW and Computing	Dr DIEFENTHALER, Markus
16:30	Discussion	

Software: R&D Activities (16:40 - 17:10)

-Conveners: Graeme A Stewart; Michel Jouvin

time	[id] title	presenter
16:40	[34] PyHEP	RODRIGUES, Eduardo
17:00	Discussion	

Software: R&D Activities (17:30 - 18:00)

-Conveners: Teng Jian Khoo; David Lange

time	[id] title	presenter
17:30	[35] CERN R&D on Spack and the Turnkey Stack	VOLKL, Valentin
17:50	Discussion	

Software: Training (18:00 - 18:50)

-Conveners: Teng Jian Khoo; David Lange

time	[id] title	presenter
18:00	[37] Training: Activities	MEEHAN, Samuel Ross
18:15	Discussion	
18:25	[38] Training: Community Building	LIERET, Kilian LIERET, Kilian
18:40	Discussion	

Friday, 20 November 2020

Software: Event Generation (16:00 - 18:20)

-Conveners: Efe Yazgan; Andrea Valassi; Josh McFayden

time	[id] title	presenter
16:00	[55] Introduction	MCFAYDEN, Josh
16:10	[53] MC@NLO-Delta	FRIXIONE, Stefano
16:28	Discussion	
16:40	[54] Neural Resampler	NACHMAN, Ben
16:58	Discussion	
17:10	Coffee and Cake	
17:20	[68] Progress on porting MadGraph5_aMC@NLO to GPUs	ROISER, Stefan
17:38	Discussion	
17:50	[56] PDF/Vegas-Flow	CRUZ MARTÍNEZ, Juan M.
18:08	Discussion	

Monday, 23 November 2020

Software: Detector Simulation I (16:00 - 17:30)

-Conveners: Jonathan Madsen; Witold Pokorski; Gloria Corti; Philippe Canal

time	[id] title	presenter
16:00	[42] Geant4	VERDERI, Marc
16:20	[70] Discussion	
16:30	[43] Requirements from HEP experiments	BANDIERAMONTE, Marilena
16:50	[71] Discussion	
17:00	[14] Machine Learning for Detector Simulation	PEDRO, Kevin
17:20	[73] Discussion	

Software: Detector Simulation II (17:50 - 19:00)

-Conveners: Jonathan Madsen; Philippe Canal; Witold Pokorski; Gloria Corti

time	[id] title	presenter
17:50	[39] AdePT	GHEATA, Andrei
18:05	[74] Discussion	
18:10	[40] Celeritas	Dr JOHNSON, Seth
18:25	[76] Discussion	
18:30	[41] Using Geant4 and Opticks to simulate liquid Aron TPC's	WENZEL, Hans-Joachim
18:45	[78] Discussion	
18:50	[44] General Discussion	

Tuesday, 24 November 2020

Software: Diverse R&D (Coffee break is internal - see detailed view) (16:00 - 19:00)

-Conveners: Graeme A Stewart; Teng Jian Khoo; Michel Jouvin; David Lange

time	[id] title	presenter
16:00	[109] Introduction	LANGE, David STEWART, Graeme A JOUVIN, Michel KHOO, Teng Jian
16:05	[6] Phoenix Event Display	MOYSE, Edward
16:15	[57] Discussion	
16:22	[18] High-throughput data analysis with modern ROOT interfaces	Dr GUIRAUD, Enrico Mr PADULANO, Vincenzo Eduardo Mr WUNSCH, Stefan
16:32	[62] Discussion	
16:39	[10] bamboo: easy and efficient analysis with python and RDataFrame	DAVID, Pieter
16:49	[58] Discussion	
16:56	[2] Analysis Description Language for LHC-type analyses	UNEL, Gokhan SEKMEN, Sezen PROSPER, Harry
17:01	[59] Discussion	
17:06	[9] podio - latest developments and new features of a flexible EDM toolkit	MADLENER, Thomas
17:11	[60] Discussion	
17:16	Coffee and Cake	
17:35	[7] Use of auto-differentiation within the ACTS toolkit	Mr BENJAMIN, Huth
17:45	[61] Discussion	
17:52	[21] Reconstruction for Liquid Argon TPC Neutrino Detectors Using Parallel Architectures	BERKMAN, Sophie
17:57	[63] Discussion	
18:02	[11] GPU-accelerated machine learning inference for offline reconstruction and analysis workflows in neutrino experiments	YANG, Tingjun
18:12	[64] Discussion	
18:19	[13] GPU-based tracking with Acts	AI, Xiaocong
18:29	[65] Discussion	
18:36	[1] Investigating Portable Heterogeneous Solutions with Fast Calorimeter Simulation	PASCUZZI, Vincent Dr LEGGETT, Charles
18:46	[66] Discussion	
18:53	[67] Closing Remarks	LANGE, David STEWART, Graeme A JOUVIN, Michel KHOO, Teng Jian