

51st SLAC Summer Institute (SSI 2023)

Monday, 7 August 2023

Lectures - 51/1-102 - Kavli Auditorium (09:00 - 12:45)

time	[id] title	presenter
09:00	[4] Welcome and Introduction to SSI	RIZZO, Thomas
10:00	Break	
10:30	[6] ML Basics I	HEINRICH, Lukas
11:30	Break	
11:45	[8] ML Basics II	HEINRICH, Lukas

Tuesday, 8 August 2023

Lectures - 51/1-102 - Kavli Auditorium (09:00 - 12:45)

time	[id] title	presenter
09:00	[7] ML Basics III	HEINRICH, Lukas
10:00	Break	
10:30	[9] Challenges in AI/ML at the Energy Frontier	NACHMAN, Ben
11:30	Break	
11:45	[10] Challenges in AI/ML at the Cosmic Frontier	FERRARO, Simone

Wednesday, 9 August 2023

Lectures - 51/1-102 - Kavli Auditorium (09:00 - 12:45)

time	[id] title	presenter
09:00	[11] Challenges in AI/ML at the Intensity Frontier	WONGJIRAD, Taritree WONGJIRAD, Taritree
10:00	Break	
10:30	[12] Computer Vision Introduction	ALONSO, Saul Dr ALONSO MONSALVE, Saul
11:30	Break	
11:45	[13] Computer Vision Applications I (IF)	WHITEHEAD, Leigh WHITEHEAD, Leigh

Thursday, 10 August 2023

Lectures - 51/1-102 - Kavli Auditorium (09:00 - 12:45)

time	[id] title	presenter
09:00	[16] Graph Neural Networks Introduction	DUARTE, Javier
10:00	Break	
10:30	[17] Graph Neural Networks Applications I (EF)	DUARTE, Javier DUARTE, Javier
11:30	Break	
11:45	[18] Graph Neural Networks Applications II (IF)	DRIELSMA, Francois

Friday, 11 August 2023

Lectures - 51/1-102 - Kavli Auditorium (09:00 - 12:45)

time	[id] title	presenter
09:00	[19] Challenges in AI/ML and Accelerators	EDELEN, Auralee
10:00	Break	
10:30	[20] Bayesian Optimization and Reinforcement Learning: Intro and Applications I	EDELEN, Auralee
11:30	Break	
11:45	[21] DEI and Ethics in AI for HEP	THAIS, Savannah

Monday, 14 August 2023

Lectures - 51/1-102 - Kavli Auditorium (09:00 - 12:45)

time	[id] title	presenter
09:00	[22] Anomaly Detection Intro & Applications 1	SHIH, David
10:00	Break	
10:30	[23] Anomaly Detection Applications 2	MONZANI, Maria Elena
11:30	Break	
11:45	[24] Fast ML 1	NGADIUBA, Jennifer

Tuesday, 15 August 2023

Lectures - 51/1-102 - Kavli Auditorium (09:00 - 12:45)

time	[id] title	presenter
09:00	[69] Generative Models	LOUPPE, Gilles
10:00	Break	
10:30	[71] Generative Model Applications 1	LANUSSE, Francois
11:30	Break	
11:45	[73] Generative Model Applications 2	SHIH, David

Wednesday, 16 August 2023

Lectures - 51/1-102 - Kavli Auditorium (09:00 - 12:50)

time	[id] title	presenter
09:00	[28] Generative Model Applications 3	WONGJIRAD, Taritree
10:00	Break	
10:30	[29] Simulation Based Inference (SBI) Intro and Applications 1	LOUPPE, Gilles
11:30	Break	
11:45	[27] ML Emulation in CF Theory	DEROSE, Joe

Thursday, 17 August 2023

Lectures - 51/1-102 - Kavli Auditorium (09:00 - 12:45)

time	[id] title	presenter
09:00	[25] Fast ML 2	NGADIUBO, Jennifer
10:00	Break	
10:30	[32] Future of AI/ML in HEP	GANGULI, Surya
11:30	Break	
11:45	[30] SBI Applications 2	LANUSSE, Francois

Friday, 18 August 2023

Lectures - 51/1-102 - Kavli Auditorium (09:00 - 13:00)

time	[id] title	presenter
09:00	[26] Challenges in Theory and AI/ML	PLEHN, Tilman
10:00	Break	
10:30	[31] Symmetries and ML	IPP, Andreas
11:30	Break	
11:45	[33] Contest Award	RIZZO, Thomas
11:55	[34] Future of HEP	HEWETT, JoAnne