Nuclear Physics School (NPS2025)

Tuesday, 1 July 2025

Generative Adversarial Network (GAN)

Machine Learning Application - □□□□ (11:00 - 12:30)		
-Conveners: MinJung Kweon		
time [id] title	presenter	
11:00 [5] Machine learning in physical science: basics, applications, and challenges I	Dr SHIN, Min-Su	
Machine Learning Application - □□□□ (14:00 - 15:30) -Conveners: MinJung Kweon		
time [id] title	presenter	
14:00 [6] Machine learning in physical science: basics, applications, and challenges II	Dr SHIN, Min-Su	
Machine Learning Application - □□□□ (16:00 - 18:00)		
time [id] title	presenter	

Wednesday, 2 July 2025

-Conveners: MinJung Kweon

time [id] title	presenter
09:00 [7] Using generative models for nuclear and particle physics I	Prof. CHOI, Suyong

$\underline{Machine\ Learning\ Application}\ \textbf{-}\ \Box\Box\Box\Box\ \textbf{(10:30-11:30)}$

-Conveners: MinJung Kweon

time [id] title	presenter
10:30 [8] Using generative models for nuclear and particle physics II	Prof. CHOI, Suyong

Machine Learning Application - $\Box\Box\Box\Box$ (12:30 - 14:00)

-Conveners: MinJung Kweon

time [id] title	presenter
12:30 [9] Density Estimation with Neural Transformations: Normalizing Flows and Diffusion Models	Dr LIM, Sung Hak

Machine Learning Application - □□□□ (14:30 - 16:00)

-Conveners: MinJung Kweon

time [id] title	presenter
14:30 [10] Galactic Dark Matter Density Estimation Using Astronomical Survey Galaxies	rs of Dr LIM, Sung Hak

Thursday, 3 July 2025

$\underline{Machine\ Learning\ Application}\ \textbf{-}\ \Box\Box\Box\Box\ \textbf{(09:00-10:30)}$

-Conveners: MinJung Kweon

time	[id] title	presenter

09:00	[11] Applications of Machine Learning in Nuclear Physics and Opportunities for	Dr SMITH, Michael
	Nucleosynthesis Studies (TBC)	

Machine Learning Application - □□□□ (11:00 - 12:30)

-Conveners: MinJung Kweon

time [id] title	presenter	
11:00 [12] Application of Al/ML in Relativistic Heavy Ion Physics	Dr GO, Yeonju	

Machine Learning Application - □□□□ (15:30 - 17:00)

-Conveners: MinJung Kweon

time [id] title	presenter
15:30 [17] Selected Algorithms II: CNN, RNN, Transformer	KWEON, MinJung