



# Science Week - 2019

## Friday, 23 August 2019

### Data Science and Quantum Computing Workshop: Hands-on Session: Machine Learning - Auditorium (08:30 - 10:30)

-Conveners: Wojciech Fedorko

time	[id] title	presenter
08:30	[42] Hands on Machine Learning session	Dr FEDORKO, Wojciech

### Data Science and Quantum Computing Workshop: Hands-on Session: Quantum Computing - Auditorium (11:00 - 12:30)

-Conveners: Olivia Di Matteo

time	[id] title	presenter
11:00	[43] Hands-on Session: Developing Quantum Applications in Q#	Dr GRANADE, Christopher

### Data Science and Quantum Computing Workshop - Auditorium (13:30 - 15:30)

-Conveners: Olivia Di Matteo; Wojciech Fedorko

time	[id] title	presenter
13:30	[41] Deep Learning Applications to Medical Imaging	Dr HAMARNEH, Ghassan
14:00	[45] Quantum Variational Autoencoders and their applications	Dr SADEGHI, Hossein
14:30	[46] Enhancing quantum simulators with neural networks	Dr TORLAI, Giacomo
15:00	[47] Quantum Algorithms for Solving Dynamic Programming Problems	Dr RONAGH, Pooya

### Data Science and Quantum Computing Workshop - Auditorium (16:00 - 17:30)

-Conveners: Wojciech Fedorko; Olivia Di Matteo

time	[id] title	presenter
16:00	[44] Projects at TRIUMF	Dr FEDORKO, Wojciech
16:03	[63] Variational AutoEncoders (VAEs) for water Cherenkov detectors	Mr KAJAL, Abhishek
16:21	[64] Extrapolating Nuclear Many-Body Calculations with Constrained Gaussian Processes	Mr GYSBERS, Peter
16:40	[48] Expressive Structured Representations in Deep Generative Models	Dr LEHRMANN, Andreas
17:05	[49] Solving Technological Challenges with the Fujitsu Digital Annealer	Mr ENGLISH, Jeffrey Mr OZAKI, Tadayoshi