



# ACAT 2021

## Monday, November 29, 2021

### Plenary - Auditorium (3:20 PM - 4:50 PM)

-Conveners: Soonwook Hwang; Patricia Mendez Lorenzo; Gudrun Heinrich

time	[id] title	presenter
3:20 PM	[783] How WHO helps to fight the COVID pandemic with data	FITZNER, Julia
3:50 PM	[795] Machine Learning for LHC Theory	BUTTER, Anja
4:20 PM	[790] Verifying Mathematical Proofs with Computers	BUZZARD, Kevin

# Tuesday, November 30, 2021

## Plenary - Auditorium (3:00 PM - 4:30 PM)

-Conveners: **Andrey Pikelner; John J. Oh; Maria Girone**

time	[id] title	presenter
3:00 PM	[792] Modern multiloop calculations: Search for new algorithms and fast computer algebra systems	LEE, Roman N.
3:30 PM	[787] Autonomous Driving, the missing piece	BROGGI, Alberto
4:00 PM	[788] High-performance Analysis, Today and Tomorrow	BENDAVID, Josh

# Wednesday, December 1, 2021

## **Plenary - Auditorium (3:00 PM - 4:10 PM)**

-Conveners: Jerome LAURET; Sunny Seo; Doris Yangsoo Kim

time	[id] title	presenter
3:00 PM	[796] Biomimetic neural network inspired by human hearing	AHN, Kang-Hun
3:30 PM	[786] Racing for what? Acceleration and Competition in the Academic Sciences	MUELLER, Ruth

## **Plenary: Plenary - Auditorium (4:30 PM - 5:00 PM)**

-Conveners: Sunny Seo; Doris Yangsoo Kim; Jerome LAURET

time	[id] title	presenter
4:30 PM	[794] Understanding Machine Learning via Exactly Solvable Statistical Physics Models	ZDEBOROVA, Lenka

# Thursday, December 2, 2021

## Plenary - Auditorium (9:00 AM - 10:30 AM)

-Conveners: Jennifer Ngadiuba; Sung Woo YOUN; Pushpalatha Bhat

time	[id] title	presenter
9:00 AM	[791] Quantum Computing: where is it going and what is it good for?	LYKKEN, Joseph
9:30 AM	[782] Quantum Computing for Data Science	SANDERS, Barry
10:00 AM	[785] Generators and the (Accelerated) Future	ISAACSON, Joshua

# Friday, December 3, 2021

## Plenary - Auditorium (3:20 PM - 3:50 PM)

-Conveners: **Andrey Arbuzov; Monique Werlen; Monique Werlen; Doris Yangsoo Kim**

time	[id] title	presenter
3:20 PM	[784] Outlook on software framework in nuclear physics	MATTA, Adrien

## Plenary - Auditorium (4:50 PM - 5:20 PM)

-Conveners: **Daniel Maitre; Marilena Bandieramonte; Doris Yangsoo Kim**

time	[id] title	presenter
4:50 PM	[789] Unsupervised Machine Learning for New Physics Searches	SPANNOWSKY, Michael