# XIIIth Quark Confinement and the Hadron Spectrum

## Wednesday, 1 August 2018

**Statistical Methods for Physics Analysis in the XXI Century: H1a - Hall C (14:00 - 15:40)**

**-Conveners: Tommaso Dorigo**

| time | [id] title | presenter |
|---|---|---|
| 14:00 | [327] Introduction and Goals of The Session | DORIGO, Tommaso |
| 14:20 | [113] Bayesian unfolding of charged particle $p_{\mathrm{T}} $ spectra with ALICE at the LHC | KRUGER, Mario |
| 14:40 | [103] Pseudosignificances as figures of merit: a systematic study and Bayesian solutions | Dr VISCHIA, Pietro |
| 15:10 | [249] The Bayesian Interpretation of Deep Neural Networks: What Is It Good For? | Prof. PROSPER, Harrison |

**Statistical Methods for Physics Analysis in the XXI Century: H1b - Hall C (16:00 - 17:40)**

**-Conveners: Tommaso Dorigo**

| time | [id] title | presenter |
|---|---|---|
| 16:00 | [243] Statistics and data analysis for neutrino experiments | STANCO, Luca |
| 16:30 | [267] New Machine Learning Tools in ROOT/TMVA | Dr MONETA, Lorenzo |
| 17:00 | [220] Determination of the quark-gluon string parameters from the data on pp, pA and AA collisions at wide energy range using Bayesian Gaussian Process Optimization | Dr KOVALENKO, Vladimir |
| 17:20 | [325] Continuous signal modelling in a multidimensional space of coupling parameters | BRENNER, Lydia |

# Thursday, 2 August 2018

**Statistical Methods for Physics Analysis in the XXI Century: H2a - Hall C (14:00 - 16:00)**

**-Conveners: Tommaso Dorigo**

| time | [id] title | presenter |
|---|---|---|
| 14:00 | [25] Managing Many Simultaneous Systematic Uncertainties | LISTA, Luca |
| 14:30 | [47] Confidence intervals for linear combinations of Poisson observations | Prof. FRANCISCO, Matorras |
| 15:00 | [236] Machine learning for hypothesis testing in HEP | STOYE, Markus |
| 15:30 | [65] Neural networks and machine learning tools for global PDF analyses | ROJO, Juan |

**Statistical Methods for Physics Analysis in the XXI Century: H2b - Hall C (16:20 - 18:20)**

**-Conveners: Sergei Gleyzer**

| time | [id] title | presenter |
|---|---|---|
| 16:20 | [221] Using Machine Learning methods for improving data quality in the ALICE experiment | GRACZYKOWSKI, Lukasz Kamil |
| 16:40 | [251] Recent developments in deep-leaning applied to open physics data | STRONG, Giles Chatham |
| 17:00 | [72] □Model independent searches for new physics via parametric anomaly detection | Mr KOTKOWSKI, Grzegorz |
| 17:20 | [131] Unfolding: Point Estimation, Uncertainty Quantification and Future Directions | Dr KUUSELA, Mikael |
| 17:50 | [73] Big Data Software in High Energy Physics | PIVARSKI, Jim |

# Friday, 3 August 2018

**Statistical Methods for Physics Analysis in the XXI Century: H3a - Hall C (14:00 - 15:40)**

**-Conveners: Sergei Gleyzer**

| time | [id] title | presenter |
|---|---|---|
| 14:00 | [261] Networked data-science for research, academic communities and beyond | USTYUZHANIN, Andrey |
| 14:30 | [43] Direct Learning of Systematics-Aware Summary Statistics | DE CASTRO MANZANO, Pablo |
| 15:00 | [216] Fisher information metrics for binary classifier evaluation and training | VALASSI, Andrea |

**Statistical Methods for Physics Analysis in the XXI Century: H3b - Hall C (16:00 - 17:40)**

**-Conveners: Sergei Gleyzer**

| time | [id] title | presenter |
|---|---|---|
| 16:00 | [344] 20+ Years of CL_s | READ, Alexander Lincoln |
| 16:30 | [74] Statistics in Particle Physics: Ideals vs Reality | MOZER, Matthias Ulrich |
| 17:00 | [41] Estimation of global statistical significance of a new signal within the GooFit framework on GPUs | Mr DI FLORIO, Adriano |
| 17:20 | [328] Summary and closing of section H | Dr GLEYZER, Sergei |