

PANIC2021 Conference

Monday, September 6, 2021

Plenary session: Standard model physics at the TeV scale (1:00 PM - 2:30 PM)

-Conveners: Young-Kee Kim

| time | [id] title | presenter |
|---------|---|----------------------|
| 1:00 PM | [577] Overview on theoretical issues of standard model and physics at the TeV scale | MALTONI, Fabio |
| 1:30 PM | [578] Higgs physics results by ATLAS and CMS | TREVISANI, Nicolo' |
| 2:00 PM | [579] Highlights of EW and QCD results at the LHC | JIMÉNEZ PEÑA, Javier |

Plenary session: Dark matter and cosmology (2:40 PM - 4:10 PM)

-Conveners: Alexandre Lindote

| time | [id] title | presenter |
|---------|---|---------------------|
| 2:40 PM | [581] Theoretical understanding on dark matter | BERTONE, Gianfranco |
| 3:10 PM | [580] Observational multi-messenger physics with neutrinos and beyond | XU, Donglian |
| 3:40 PM | [582] Experimental searches for dark matter | GAITSKELL, Richard |

Plenary session: Neutrino physics (4:20 PM - 5:20 PM)

-Conveners: Soo-Bong Kim

| time | [id] title | presenter |
|---------|---|-------------------|
| 4:20 PM | [584] Theoretical progress in the field of neutrino physics | HERNANDEZ, Pilar |
| 4:50 PM | [583] New experimental results in the field of neutrino physics | LASSERRE, Thierry |

Tuesday, September 7, 2021

Plenary session: Flavour physics - CKM and beyond (1:00 PM - 2:30 PM)

-Conveners: jorge Martin Camalich

| time | [id] title | presenter |
|---------|---|----------------|
| 1:00 PM | [586] New theoretical aspects of flavor physics | ISIDORI, Gino |
| 1:30 PM | [587] LHCb results | WATSON, Nigel |
| 2:00 PM | [588] Belle II results | HIGUCHI, Takeo |

Plenary session: Tests of symmetries and conservation laws (2:40 PM - 4:10 PM)

-Conveners: DMITRY BUDKER

| time | [id] title | presenter |
|---------|--|----------------------|
| 2:40 PM | [589] Theoretical aspects of fundamental symmetries and conservation laws | CIRIGLIANO, Vincenzo |
| 3:10 PM | [590] Overview on experimental tests of fundamental symmetries and conservation laws | KIRCH, Klaus |
| 3:40 PM | [591] The muon g-2 experiment at FNAL | FERTL, Martin |

Plenary session: Hadron spectroscopy and exotics (4:20 PM - 5:20 PM)

-Conveners: Stephan Paul

| time | [id] title | presenter |
|---------|--|------------------|
| 4:20 PM | [592] Theoretical understanding of light and heavy hadrons | GUO, Feng-Kun |
| 4:50 PM | [593] New experimental results on light and heavy hadrons | YUAN, Changzheng |

Thursday, September 9, 2021

Plenary session: QCD, spin physics and chiral dynamics (1:00 PM - 3:10 PM)

-Conveners: Marcin Stolarski

| time | [id] title | presenter |
|---------|---|--------------------|
| 1:00 PM | [594] New theoretical results on QCD and the structure of the nucleon | PROKUDIN, Alexei |
| 1:30 PM | [595] New experimental results on the (spin) structure of the nucleon | QUINTANS, Catarina |
| 2:00 PM | [596] Experimental status of the proton radius | GAO, Haiyan |
| 2:30 PM | Break | |
| 2:40 PM | [597] Status of and plans for the EIC project | SURROW, Bernd |

Plenary session: QGP and heavy ion collisions (3:10 PM - 4:10 PM)

-Conveners: Nu Xu

| time | [id] title | presenter |
|---------|--|---------------------|
| 3:10 PM | [598] New theoretical results on hot and dense matter physics in heavy ion reactions | WIEDEMANN, Urs |
| 3:40 PM | [599] Experimental results on hot and dense matter physics in heavy ion reactions | MOHANTY, Bedangadas |

Plenary session: Hadrons in medium - hyperons and mesons in nuclear matter (4:20 PM - 5:20 PM)

-Conveners: Laura Fabbietti

| time | [id] title | presenter |
|---------|---|---------------------|
| 4:20 PM | [600] Theoretical understanding of hadrons in hot/dense media | FLÖRCHINGER, Stefan |
| 4:50 PM | [601] Overview on experimental results on hadrons in medium | BUFALINO, Stefania |

Friday, September 10, 2021

Plenary session: Nuclear and particle astrophysics (1:00 PM - 2:30 PM)

-Conveners: Philippe Chomaz

| time | [id] title | presenter |
|---------|---|-----------------|
| 1:00 PM | [602] Overview on progress in theoretical nuclear physics | HOLT, Jason |
| 1:30 PM | [603] Experimental nuclear astrophysics overview | SPYROU, Artemis |
| 2:00 PM | [604] Overview on progress in nuclear medical physics | HOEHR, Cornelia |

Plenary session: Development of accelerators and detectors + data science + Energy frontier physics beyond the standard model + Gravitational waves (2:40 PM - 4:50 PM)

-Conveners: Nuno Castro

| time | [id] title | presenter |
|---------|---|--------------------------|
| 2:40 PM | [605] Accelerator Technologies and Science: Progress and Outlook | SHILTSEV, Vladimir |
| 3:10 PM | [606] New developments in Physics Data science | HEINRICH, Lukas |
| 3:40 PM | [607] Overview on the energy frontier of particle physics beyond the standard model | DA COSTA, Joao Guimaraes |
| 4:10 PM | Break | |
| 4:20 PM | [608] (Astro)physical implications of the O3 gravitational wave detections | Dr LAMBERTS, Astrid |

Plenary session: Best Posters (4:50 PM - 5:20 PM)

-Conveners: Helena Santos

| time | [id] title | presenter |
|---------|--------------------|---|
| 4:50 PM | [630] Best Posters | HAPPACHER, Fabio RIENÄCKER, Ingo VERSTEEGEN, Maud ADHYA, Souvik Priyam |