



# 10th IDPASC School

## Tuesday, 7 September 2021

### Lectures: Session 1 (09:00 - 12:30)

-Conveners: Ilidio Lopes

| time  | [id] title   | presenter              |
|-------|--|------------------------|
| 09:00 | [22] Astrophysics, Stars and Dark Matter - I                               | KOUVARIS, Christoforos |
| 10:00 | Break  |                        |
| 10:15 | [23] Data acquisition in present and future experiments@CERN colliders - I | GASPAR, Clara          |
| 11:15 | Break  |                        |
| 11:30 | [24] Machine Learning in HEP - I   | COADOU, Yann           |

# Wednesday, 8 September 2021

## Lectures: Session 2 (09:00 - 12:30)

-Conveners: Pedro Costa

| time  | [id] title                                    | presenter              |
|-------|---|------------------------|
| 09:00 | [26] Astrophysics, Stars and Dark Matter - II | KOUVARIS, Christoforos |
| 10:00 | Break   |                        |
| 10:15 | [27] Dark matter in colliders - I             | FUKS, Benjamin         |
| 11:15 | Break   |                        |
| 11:30 | [28] Machine Learning in HEP - II             | COADOU, Yann           |

# Thursday, 9 September 2021

## Lectures: Session 3 (09:00 - 12:30)

-Conveners: Nuno Castro

| time  | [id] title  | presenter                              |
|-------|---|--|
| 09:00 | [30] Astrophysics, Stars and Dark Matter - III    | KOUVARIS, Christoforos                 |
| 10:00 | Break   |  |
| 10:15 | [31] (Heavy) Flavour Physics in the precision Era | MONTEIL, Stéphane<br>MONTEIL, Stéphane |
| 11:15 | Break   |  |
| 11:30 | [32] Higgs and Multi-Higgs - I                    | ROMÃO, Jorge                           |

# Friday, 10 September 2021

## Lectures: Session 4 (09:00 - 12:30)

-Conveners: Alessandro de Angelis

| time  | [id] title  | presenter      |
|-------|---|----------------|
| 09:00 | [34] Dark matter in colliders - II  | FUKS, Benjamin |
| 10:00 | Break   |                |
| 10:15 | [35] Data acquisition in present and future experiments@CERN colliders - II | GASPAR, Clara  |
| 11:15 | Break   |                |
| 11:30 | [36] Higgs and Multi-Higgs - II   | SANTOS, Rui    |

# Monday, 13 September 2021

## Lectures: Session 5 (09:00 - 12:30)

-Conveners: Ricardo Gonalo

| time  | [id] title                              | presenter          |
|-------|---|--------------------|
| 09:00 | [38] Particle Physics Outreach          | GODINHO, Ana       |
| 10:00 | Break                                   |                    |
| 10:15 | [39] Direct Dark Matter Searches - I    | ARAÚJO, Henrique   |
| 11:15 | Break                                   |                    |
| 11:30 | [40] Cosmology and Particle Physics - I | ROSENFELD, Rogerio |

# Tuesday, 14 September 2021

## Lectures: Session 6 (09:00 - 12:30)

-Conveners: Pedro Assis; Nuno Castro

| time  | [id] title   | presenter          |
|-------|--|--------------------|
| 09:00 | [42] The Origins of the Highest Energy Particles in Nature | WATSON, Alan       |
| 10:00 | Break  |                    |
| 10:15 | [43] Direct Dark Matter Searches - II                      | ARAÚJO, Henrique   |
| 11:15 | Lunch  |                    |
| 11:30 | [44] Cosmology and Particle Physics - II                   | ROSENFELD, Rogerio |

# Wednesday, 15 September 2021

## Lectures: Session 7 (09:00 - 12:30)

-Conveners: Rui Santos

| time  | [id] title                                | presenter               |
|-------|---|-------------------------|
| 09:00 | [46] Cosmic Rays                          | CONCEIÇÃO, Rúben        |
| 10:00 | Break                                     |                         |
| 10:15 | [47] Neutrino Physics - I                 | GONZALEZ-GARCIA, Concha |
| 11:15 | Break                                     |                         |
| 11:30 | [48] Cosmology and Particle Physics - III | ROSENFELD, Rogerio      |

# Thursday, 16 September 2021

## Lectures: Session 8 (09:00 - 12:30)

-Conveners: Sofia Andringa

| time  | [id] title                       | presenter               |
|-------|----------------------------------|-------------------------|
| 09:00 | [50] Gamma Rays                  | CONCEIÇÃO, Rúben        |
| 10:00 | Break                            |                         |
| 10:15 | [51] Neutrino Physics - II       | GONZALEZ-GARCIA, Concha |
| 11:15 | Break                            |                         |
| 11:30 | [52] Physics at future Colliders | D'HONDT, Jorgen         |