|               |                       | ОСТ                   | OBER                  |                       |        |
|---------------|-----------------------|-----------------------|-----------------------|-----------------------|--------|
|               |                       |                       |                       |                       |        |
| TIME          | MONDAY                | TUESDAY               | WEDNESDAY             | THURSDAY              | FRIDAY |
|               |                       | 1                     | 2                     | 3                     | 4      |
| 08.30 - 09:30 |                       |                       |                       |                       |        |
| 09:30 - 10:30 |                       | Welcome and           | Physics of the Cosmos | Programming           |        |
| 10:30 - 11:30 |                       | Instructions          | Particle Physics      | 1 Togramming          |        |
| 11:30 - 12:30 |                       | EA / DMPP             | EA / DMPP             | Statistics            |        |
| 12:30 - 13:30 |                       | Statistics            | Statistics            | EA / DMPP             |        |
| 13:30 - 14:30 |                       |                       |                       |                       |        |
| 16:00 -       |                       |                       |                       |                       |        |
|               | 7                     | 8                     | 9                     | 10                    | 11     |
| 08.30 - 09:30 |                       |                       |                       |                       |        |
| 09:30 - 10:30 | Di                    | Physics of the Cosmos | Physics of the Cosmos | Physics of the Cosmos |        |
| 10:30 - 11:30 | Programming           | Particle Physics      | Particle Physics      | Particle Physics      |        |
| 11:30 - 12:30 | EA / DMPP             | EA / DMPP             | EA / DMPP             | Statistics            |        |
| 12:30 - 13:30 | Statistics            | Statistics            | Statistics            | EA / DMPP             |        |
| 13:30 - 14:30 |                       |                       |                       |                       |        |
| 16:00 -       |                       |                       |                       |                       |        |
|               | 14                    | 15                    | 16                    | 17                    | 18     |
| 08.30 - 09:30 |                       |                       |                       |                       |        |
| 09:30 - 10:30 |                       | Physics of the Cosmos | Physics of the Cosmos | Physics of the Cosmos |        |
| 10:30 - 11:30 | Programming           | Particle Physics      | Particle Physics      | Particle Physics      |        |
| 11:30 - 12:30 | EA / DMPP             | EA / DMPP             | EA / DMPP             | EA / DMPP             |        |
| 12:30 - 13:30 | Statistics            | Statistics            | EA7 DIII 1            | Statistics            |        |
| 13:30 - 14:30 | Ottationico           | Otatiotico            | Statistics            | Cidibios              |        |
| 16:00 -       |                       |                       |                       |                       |        |
| 10.00 -       | 21                    | 22                    | 23                    | 24                    | 25     |
| 08.30 - 09:30 | 21                    |                       | 20                    | 2-7                   | 20     |
| 09:30 - 10:30 |                       | Physics of the Cosmos | Physics of the Cosmos | Physics of the Cosmos |        |
| 10:30 - 11:30 | Programming           | Particle Physics      | Particle Physics      | Particle Physics      |        |
| 11:30 - 12:30 | EA / DMPP             | EA / DMPP             | EA / DMPP             | EA / DMPP             |        |
| 12:30 - 12:30 | Statistics            | LA / DINIT I          | Statistics            | EA / DINIT I          |        |
| 13:30 - 13:30 | Statistics            | Statistics            | Statistics            | Statistics            |        |
| 16:00 -       |                       |                       |                       |                       |        |
| 16:00 -       | 28                    | 29                    | 30                    | 31                    |        |
| 00.20 00.20   | 28                    | 29                    | 30                    | 31                    |        |
| 08.30 - 09:30 | Dhysias of the Coor   | Dhysica of the Coa    | Dhysics of the Cos    | Dhysias of the Cooms  |        |
| 09:30 - 10:30 | Physics of the Cosmos |        |
| 10:30 - 11:30 | Particle Physics      | Particle Physics      | Particle Physics      | Particle Physics      |        |
| 11:30 - 12:30 | EA / DMPP             | EA / DMPP             | EA / DMPP             | EA / DMPP             |        |
| 12:30 - 13:30 | Statistics            | Statistics            | Statistics            | Statistics            |        |
| 13:30 - 14:30 |                       |                       |                       |                       |        |
| 16:00 -       |                       |                       |                       |                       |        |

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| TIME          | MONDAY                     | TUESDAY                    | WEDNESDAY                  | THURSDAY                   | FRIDAY              |
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| 08.30 - 09:30 |                            |                            |                            |                            |                     |
| 09:30 - 10:30 |                            |                            |                            |                            |                     |
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| 11:30 - 12:30 |                            |                            |                            |                            |                     |
| 12:30 - 13:30 |                            |                            |                            |                            |                     |
| 13:30 - 14:30 |                            |                            |                            |                            |                     |
| 16:00 -       |                            |                            |                            |                            |                     |
|               | 4                          | 5                          | 6                          | 7                          | 8                   |
| 08.30 - 09:30 |                            |                            |                            |                            |                     |
| 09:30 - 10:30 | Physics of the Cosmos      | Physics of the Cosmos      | Physics of the Cosmos      |                            |                     |
| 10:30 - 11:30 | Particle Physics           | Particle Physics           | Particle Physics           | Programming                |                     |
| 11:30 - 12:30 | EA / DMPP                  | EA / DMPP                  | EA / DMPP                  | Extragalactic Astrophysics |                     |
| 12:30 - 13:30 | Statistics                 | 2777 21111 7               | Statistics                 | Statistics                 |                     |
| 13:30 - 14:30 | Otationos                  | Statistics                 | Ottationos                 | Citationico                |                     |
| 16:00 -       |                            |                            |                            |                            |                     |
| 10.00 -       | 11                         | 12                         | 13                         | 14                         | 15                  |
| 08.30 - 09:30 | 11                         | 12                         | 13                         | 14                         | 15                  |
| 09:30 - 10:30 | Physics of the Cosmos      | Physics of the Cosmos      | Physics of the Cosmos      |                            |                     |
|               |                            | •                          |                            | Programming                |                     |
| 10:30 - 11:30 | Particle Physics           | Particle Physics           | Particle Physics           | 81.11.11                   |                     |
| 11:30 - 12:30 | Extragalactic Astrophysics | Extragalactic Astrophysics | Extragalactic Astrophysics | Statistics                 |                     |
| 12:30 - 13:30 | Statistics                 | Statistics                 | Statistics                 | Extragalactic Astrophysics |                     |
| 13:30 - 14:30 |                            |                            |                            |                            |                     |
| 16:00 -       |                            |                            |                            |                            |                     |
|               | 18                         | 19                         | 20                         | 21                         | 22                  |
| 08.30 - 09:30 |                            |                            |                            |                            |                     |
| 09:30 - 10:30 | Physics of the Cosmos      | Physics of the Cosmos      | Physics of the Cosmos      | Programming                |                     |
| 10:30 - 11:30 | Particle Physics           | Particle Physics           | Particle Physics           |                            |                     |
| 11:30 - 12:30 | Extragalactic Astrophysics | Extragalactic Astrophysics | Extragalactic Astrophysics |                            |                     |
| 12:30 - 13:30 | Statistics                 |                            | Statistics                 | Extragalactic Astrophysics |                     |
| 13:30 - 14:30 | Statistics                 |                            | Statistics                 |                            |                     |
| 16:00 -       |                            |                            |                            |                            |                     |
|               | 25                         | 26                         | 27                         | 28                         | 29                  |
| 08.30 - 09:30 |                            |                            |                            |                            |                     |
| 09:30 - 10:30 | Physics of the Cosmos      |                     |
| 10:30 - 11:30 | Particle Physics           | Particle Physics           | Particle Physics           | Particle Physics           |                     |
| 11:30 - 12:30 | Extragalactic              | Extragalactic Astrophysics | Extragalactic Astrophysics |                            |                     |
| 12:30 - 13:30 | Astrophysics               |                            | Statistics                 | Extragalactic Astrophysics |                     |
| 13:30 - 14:30 | Laboratoty                 |                            | Statistics                 |                            |                     |
| 16:00 - 17:00 | Detection Methods          | Detection Methods          | Detection Methods          | Detection Methods          | Detection Methods   |
| 17:00 - 18:00 | in Particle Physics        | in Particle Physics        | in Particle Physics        | in Particle Physics        | in Particle Physics |

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| TIME          | MONDAY                     | TUESDAY                    | WEDNESDAY                  | THURSDAY                   | FRIDAY |
|               | 2                          | 3                          | 4                          | 5                          | 6      |
| 08.30 - 09:30 |                            |                            |                            |                            |        |
| 09:30 - 10:30 | Physics of the Cosmos      |        |
| 10:30 - 11:30 | Particle Physics           | Particle Physics           | Particle Physics           | Particle Physics           |        |
| 11:30 - 12:30 | Extragalactic Astrophysics | Extragalactic Astrophysics | Extragalactic Astrophysics | Extragalactic Astrophysics |        |
| 12:30 - 13:30 | Statistics                 | Statistics                 | Statistics                 |                            |        |
| 13:30 - 14:30 | Statistics                 |                            | Statistics                 |                            |        |
| 16:00 - 17:00 |                            |                            |                            |                            |        |
| 17:00 - 18:00 |                            |                            |                            |                            |        |
|               |                            |                            |                            |                            |        |
|               | 9                          | 10                         | 11                         | 12                         | 13     |
| 08.30 - 09:30 |                            |                            |                            |                            |        |
| 09:30 - 10:30 | Programming                | Physics of the Cosmos      | Physics of the Cosmos      | Physics of the Cosmos      |        |
| 10:30 - 11:30 | Frogramming                | Particle Physics           | Particle Physics           | Particle Physics           |        |
| 11:30 - 12:30 | Extragalactic Astrophysics | Extragalactic Astrophysics | Extragalactic              | Programming                |        |
| 12:30 - 13:30 | Statistics                 | Statistics                 | Astrophysics               | Trogramming                |        |
| 13:30 - 14:30 | Statistics                 |                            | Laboratoty                 |                            |        |
| 16:00 - 17:00 |                            |                            |                            |                            |        |
| 17:00 - 18:00 |                            |                            |                            |                            |        |
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|               | 16                         | 17                         | 18                         | 19                         | 20     |
| 08.30 - 09:30 |                            |                            |                            |                            |        |
| 09:30 - 10:30 | Physics of the Cosmos      | Programming                | Physics of the Cosmos      | Physics of the Cosmos      |        |
| 10:30 - 11:30 | Particle Physics           | riogramming                | i nysics of the obsilios   | 1 Hydiod of the Oddinos    |        |
| 11:30 - 12:30 | Programming                | Statistics                 | Particle Physics           | Particle Physics           |        |
| 12:30 - 13:30 | 1 Togramming               | Statistics                 | railicle Physics           | railicie rilysics          |        |

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| TIME          | MONDAY                | TUESDAY               | WEDNESDAY             | THURSDAY | FRIDAY |
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| 08.30 - 09:30 |                       |                       |                       |          |        |
| 9:30 - 10:30  |                       |                       |                       |          |        |
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| 11:30 - 12:30 |                       |                       |                       |          |        |
| 12:30 - 13:30 |                       |                       |                       |          |        |
| 13:30 - 14:30 |                       |                       |                       |          |        |
| 16:00 -       |                       |                       |                       |          |        |
|               | 6                     | 7                     | 8                     | 9        | 10     |
| 3.30 - 09:30  |                       |                       |                       |          |        |
| 30 - 10:30    |                       |                       | Di : (1) 0            |          |        |
| ):30 - 11:30  |                       |                       | Physics of the Cosmos |          |        |
| 11:30 - 12:30 |                       |                       | B #1 5                |          |        |
| 12:30 - 13:30 |                       |                       | Particle Physics      |          |        |
| 13:30 - 14:30 |                       |                       |                       |          |        |
| 16:00 -       |                       |                       |                       |          |        |
|               | 13                    | 14                    | 15                    | 16       | 17     |
| 3.30 - 09:30  |                       |                       |                       |          |        |
| 9:30 - 10:30  |                       |                       | Physics of the Cosmos |          |        |
| 0:30 - 11:30  | Physics of the Cosmos | Physics of the Cosmos | Particle Physics      |          |        |
| 11:30 - 12:30 |                       |                       | ,                     |          |        |
| 2:30 - 13:30  | Particle Physics      | Particle Physics      |                       |          |        |
| :30 - 14:30   |                       |                       |                       |          |        |
| 16:00 -       |                       |                       |                       |          |        |
|               | 20                    | 21                    | 22                    | 23       | 24     |
| 8.30 - 09:30  |                       |                       |                       |          |        |
| 9:30 - 10:30  |                       |                       |                       |          |        |
| 0:30 - 11:30  |                       |                       |                       |          |        |
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| 2:30 - 13:30  |                       |                       |                       |          |        |
| 3:30 - 14:30  |                       |                       |                       |          |        |
| 16:00 -       |                       |                       |                       |          |        |
|               | 27                    | 28                    | 29                    | 30       | 31     |
| 08.30 - 09:30 |                       |                       |                       |          |        |
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| 12:30 - 13:30 |                       |                       |                       |          |        |
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| TIME                           | MONDAY | TUESDAY                               | WEDNESDAY                             | THURSDAY                              | FRIDAY |
| TIME                           | 3      | 4                                     | 5                                     | 6                                     | 7      |
| 08.30 - 09:30                  | · ·    |                                       |                                       | ū                                     |        |
| 09:30 - 10:30                  |        |                                       |                                       |                                       |        |
| 10:30 - 11:30                  |        |                                       |                                       |                                       |        |
| 11:30 - 12:30                  |        | Cosmology / HPC                       | Cosmology / HPC                       | Cosmology / HPC                       |        |
| 12:30 - 13:30                  |        | Analysis Tools in                     | Analysis Tools in                     | Analysis Tools in                     |        |
| 13:30 - 14:30                  |        | Particle Physics                      | Particle Physics                      | Particle Physics                      |        |
| 15:30 - 16:30                  |        |                                       |                                       |                                       |        |
| 16:30 - 17:30                  |        | MMEC / Dark Universe                  | MMEC / Dark Universe                  | MMEC / Dark Universe                  |        |
| 10.00                          |        |                                       |                                       |                                       |        |
|                                | 10     | 11                                    | 12                                    | 13                                    | 14     |
| 08.30 - 09:30                  |        |                                       |                                       |                                       |        |
| 09:30 - 10:30                  |        |                                       |                                       |                                       |        |
| 10:30 - 11:30                  |        |                                       |                                       |                                       |        |
| 11:30 - 12:30                  |        | Cosmology / HPC                       | Cosmology / HPC                       | Cosmology / HPC                       |        |
| 12:30 - 13:30                  |        | Analysis Tools in                     | Analysis Tools in                     | Analysis Tools in                     |        |
| 13:30 - 14:30                  |        | Particle Physics                      | Particle Physics                      | Particle Physics                      |        |
| 15:30 - 16:30                  |        |                                       |                                       |                                       |        |
| 16:30 - 17:30                  |        | MMEC / Dark Universe                  | MMEC / Dark Universe                  | MMEC / Dark Universe                  |        |
| 10.00 17.00                    |        |                                       |                                       |                                       |        |
|                                | 17     | 18                                    | 19                                    | 20                                    | 21     |
| 08.30 - 09:30                  | .,     |                                       |                                       | 20                                    |        |
| 09:30 - 10:30                  |        |                                       |                                       |                                       |        |
| 10:30 - 11:30                  |        |                                       |                                       |                                       |        |
| 11:30 - 12:30                  |        | Cosmology / HPC                       | Cosmology / HPC                       | Cosmology / HPC                       |        |
| 12:30 - 13:30                  |        | Analysis Tools in                     | Analysis Tools in                     | Analysis Tools in                     |        |
| 13:30 - 14:30                  |        | Particle Physics                      | Particle Physics                      | Particle Physics                      |        |
| 15:30 - 16:30                  |        |                                       |                                       |                                       |        |
| 16:30 - 17:30                  |        | MMEC / Dark Universe                  | MMEC / Dark Universe                  | MMEC / Dark Universe                  |        |
| 10.00                          |        |                                       |                                       |                                       |        |
|                                | 24     | 25                                    | 26                                    | 27                                    | 28     |
| 08.30 - 09:30                  | 24     | 25                                    | 20                                    | 21                                    | 20     |
| 09:30 - 10:30                  |        |                                       |                                       |                                       |        |
| 10:30 - 11:30                  |        |                                       |                                       |                                       |        |
| 11:30 - 12:30                  |        | Cosmology / HPC                       | Cosmology / HPC                       | Cosmology / HPC                       |        |
| 12:30 - 13:30                  |        | Analysis Tools in                     | Analysis Tools in                     | Analysis Tools in                     |        |
| 13:30 - 14:30                  |        | Particle Physics                      | Particle Physics                      | Particle Physics                      |        |
| 15:30 - 16:30                  |        |                                       |                                       |                                       |        |
| 16:30 - 17:30                  |        | MMEC / Dark Universe                  | MMEC / Dark Universe                  | MMEC / Dark Universe                  |        |
| 10.00 - 17.00                  |        |                                       |                                       |                                       |        |
|                                | 00     | 07                                    | 20                                    | 20                                    |        |
| 00.20 00:20                    | 26     | 27                                    | 28                                    | 29                                    |        |
| 08.30 - 09:30<br>09:30 - 10:30 |        |                                       |                                       |                                       |        |
| 10:30 - 10:30                  |        |                                       |                                       |                                       |        |
|                                |        | Cosmology / HPC                       | Cosmology / HPC                       | Cosmology / HPC                       |        |
| 11:30 - 12:30<br>12:30 - 13:30 |        | Analysi T I i                         | Analusi T I :                         | A-chair T. I.                         |        |
| 13:30 - 13:30                  |        | Analysis Tools in<br>Particle Physics | Analysis Tools in<br>Particle Physics | Analysis Tools in<br>Particle Physics |        |
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| 15:30 - 16:30                  |        | MMEC / Dark Universe                  | MMEC / Dark Universe                  | MMEC / Dark Universe                  |        |
| 16:30 - 17:30                  |        |                                       |                                       |                                       |        |

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| TIME          | MONDAY | TUESDAY                               | WEDNESDAY                             | THURSDAY                              | FRIDAY |
|               | 3      | 4                                     | 5                                     | 6                                     | 7      |
| 08.30 - 09:30 |        |                                       |                                       |                                       |        |
| 09:30 - 10:30 |        |                                       |                                       |                                       |        |
| 10:30 - 11:30 |        | Cosmology / HPC                       | Cosmology / HPC                       | Cosmology / HPC                       |        |
| 11:30 - 12:30 |        | Coomercy / The C                      | Coomology / The C                     | Cosmology 7 Till C                    |        |
| 12:30 - 13:30 |        | Analysis Tools in                     | Analysis Tools in                     | Analysis Tools in                     |        |
| 13:30 - 14:30 |        | Particle Physics                      | Particle Physics                      | Particle Physics                      |        |
| 15:30 - 16:30 |        | MMEC / Dark Universe                  | MMEC / Dark Universe                  | MMEC / Dark Universe                  |        |
| 16:30 - 17:30 |        | WINICO / Dark Offiverse               | WINEC / Dark Offiverse                | WIIVIEC / Daik Offiverse              |        |
|               | 10     | 44                                    | 40                                    | 40                                    | 44     |
| 20.00.00      | 10     | 11                                    | 12                                    | 13                                    | 14     |
| 08.30 - 09:30 |        |                                       |                                       |                                       |        |
| 09:30 - 10:30 |        |                                       |                                       |                                       |        |
| 10:30 - 11:30 |        | Cosmology / HPC                       | Cosmology / HPC                       | Cosmology / HPC                       |        |
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| 12:30 - 13:30 |        | Analysis Tools in<br>Particle Physics | Analysis Tools in<br>Particle Physics | Analysis Tools in<br>Particle Physics |        |
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|               | 17     | 18                                    | 19                                    | 20                                    | 21     |
| 08.30 - 09:30 |        |                                       |                                       |                                       |        |
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| 11:30 - 12:30 |        | Cosmology / HPC                       | Cosmology / HPC                       |                                       |        |
| 12:30 - 13:30 |        | Analysis Tools in                     | Analysis Tools in                     |                                       |        |
| 13:30 - 14:30 |        | Particle Physics                      | Particle Physics                      |                                       |        |
| 15:30 - 16:30 |        | MMEC / Dark Universe                  | MMEC / Dark Universe                  |                                       |        |
| 16:30 - 17:30 |        | WINEC / Dark Offiverse                | WINEC / Dark Offiverse                |                                       |        |
|               | 24     | 25                                    | 26                                    | 27                                    | 28     |
| 08.30 - 09:30 |        |                                       | 20                                    |                                       |        |
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| 08.30 00:30   | 31     |                                       |                                       |                                       |        |
| 08.30 - 09:30 |        |                                       |                                       |                                       |        |
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| 10:30 - 11:30 |        |                                       |                                       |                                       |        |
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| 15:30 - 16:30 |        |                                       |                                       |                                       |        |
| 16:30 - 17:30 |        |                                       |                                       |                                       |        |

| Notes  |                                      |                                 |                                 |                                |
|--|--------------------------------------|---------------------------------|---------------------------------|--------------------------------|
| The lectures take place at the 'Aula 11' of 'Aula 10', and their laboratory, that take pl                              |                                      |                                 | and Techniques for Particle Phy | ysics', that take place at the |
| The Laboratory sessions of 'Detections M   | ethods and Techniques for Particle F | Physics' will take place during | December and/or January, on     | dates to be confirmed.         |
| As much as possible, the course 'Frontier or at the classroom (either at the 'Aula 11' many of them come from abroad). |                                      |                                 |                                 |                                |
| "DMPP" = "Detections Methods and Tech  | niques for Particle Physics"         |                                 |                                 |                                |
| "HPC" = "High Performance Computing"   |                                      |                                 |                                 |                                |
| "MMEC" = "Multi-messenger Exploration  | of the Cosmos"                       |                                 |                                 |                                |
|  |                                      |                                 |                                 |                                |
| Final grades for the first semester:   | ordinary evaluation 14 February      |                                 |                                 |                                |
|  | extraordinary evaluation 28 Fe       | ebruary                         |                                 |                                |
| Final grades for the second semester:  | ordinary evaluation 30 June          |                                 |                                 |                                |
|  | extraordinary evaluation 18 Ju       | ıly                             |                                 |                                |
|  |                                      |                                 |                                 |                                |
| Exams first semester:  | ordinary 28-31 January               |                                 |                                 |                                |
|  | extraordinary 17-20 February         |                                 |                                 |                                |
| Exams second semester:   | ordinary 31 March-4 May              |                                 |                                 |                                |
|  | extraordinary 7-11 July              |                                 |                                 |                                |