

**PhDiaFusion Summer School 2019 AGENDA**

|       | Monday 03/06   | Tuesday 04/06  | Wednesday 05/06   | Thursday 06/06   | Friday 07/06  |
|-------|--|--|---|--|---|
| 8:00  |  | <b>Breakfast</b>   | <b>Breakfast</b>  | <b>Breakfast</b>   | <b>Breakfast</b>  |
| 9:00  | <b>Arrival</b>   | <b>S1. Chairman: Didier Mazon</b><br><br><b>Luca Zabeo</b> - Data for plasma control: from synthetic to real data for design and implementation of plasma control activities   | <b>S3. Chairman: Marek Scholz</b><br><br><b>Łukasz Syrocki</b> Theoretical approach to determine the high-temperature tokamak plasma parameters | <b>S4. Chairman: Urszula Woźnicka</b><br><br><b>Andrea Uccello</b> - Linear machines for plasma-material interaction studies: experiments and modelling    | <b>S6. Chairman: Wojciech Królas</b><br><br><b>Dariusz Makowski</b> - Plasma Diagnostic Systems - Data Acquisition and Processing |
| 10:00 |  | <b>Jakob Svensson</b> - Bayesian inference and forward modelling   | <b>Yves Peysson</b> - From first principles calculations to synthetic diagnostics   | <b>Hennie van der Meiden</b> - Incoherent and collective Thomson scattering for the determination of electron and ion properties in low-temperature plasma | <b>Andrzej Wojeński</b> - Data Quality Monitoring for tokamak soft X-ray diagnostic system GEM-detector based                     |
| 11:00 |  | <b>Coffee break</b>  | <b>Coffee break</b>   | <b>Coffee break</b>  | <b>Coffee break</b>   |
| 11:30 |  | <b>Kieran J. McCarthy</b> - Plasma diagnostics in the stellarator TJ-II with a detailed description of the experimental method and data analysis used to determine local magnitudes and pitches of its magnetic field components | <b>Marco de Baar</b> - NTM control radial location of the NTM   | <b>Axel Jardin</b> - Synthetic X-ray tomography diagnostics for tokamak plasmas  | <b>Marek Scholz</b> – Synthetic diagnostics for HRNS  |
| 12:30 |  | <b>TUTORIAL</b><br><b>Kieran J. McCarthy</b>   | <b>TUTORIAL</b><br><b>Marco de Baar</b> - NTM control – mode frequency and phase  | <b>TUTORIAL</b><br><b>Yves Peysson</b> - Analysis of fast electron dynamics in a tokamak   | <b>Closing of the School</b>  |
| 13:00 | <b>Lunch</b>   | <b>Lunch</b>   | <b>Lunch</b>  | <b>Lunch</b>   |   |
| 14:30 | <b>Registration</b>  | <b>S2. Chairman: Marco de Baar</b><br><br><b>Domenico D'ANDREA</b> - Cryogenics for the future fusion power plants   | <b>Excursion &amp; Barbecue party</b>   | <b>S5. Chairman: Krzysztof Drozdowicz</b><br><br><b>Gergő Pokol</b><br>The story of fluctuation beam emission spectroscopy synthetic diagnostic in IMAS    | <b>Departure</b>  |
| 15:00 |  | <b>Students' presentations</b><br>1. A. Buzas<br>2. O. Asztalos<br>3. M. Brank   |   | <b>Marco Tardocchi</b><br>High rate neutron and gamma ray spectroscopy of magnetic confinement fusion plasmas  |   |
| 15:30 |  | <b>Coffee break</b>  |   |  |   |
| 16:00 | <b>FR – PL YEAR - French Embassy Representative</b><br><b>Christophe Paoli</b> | <b>Students' presentations</b><br>4. A. Dal Molin<br>5. Ł. Marciniak<br>6. A. Szelecka   |   | <b>Coffee break</b>  |   |
| 16:30 | <b>Introduction - Didier Mazon</b>   |  |   | <b>Students' presentations</b><br>1. D. Penko<br>2. I. Vasileska<br>3. P. Plewiński<br>4. P. Perek   |   |
| 17:00 | <b>Opening of the School - IFJ representative</b>                              |  |   |  |   |
| 17:30 |  |  |   |  |   |
| 18:00 |  |  |   |  |   |
| 18:30 |  |  |   |  |   |
| 19:00 | <b>Dinner and welcome recept.</b>  | <b>Dinner</b>  |   | <b>Conference dinner</b>   |   |