Formation et activités doctorales complémentaires à l’ED PHENIICS
Training and complementary doctoral activities at ED PHENIICS

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0/ Doctoral training is governed by a series of official texts stemming from the law.

1/ The internal regulations for doctoral studies at the University of Paris-Saclay, adopted in October 2020, provide the main guidelines for its implementation within the University Paris Saclay.

2/ The internal regulations of ED PHENIICS specify the concrete implementation within the ED.
Training and complementary doctoral activities: the PHENIICS requirements

You must acquire **25 training points** over the whole duration of your thesis, divided into the following three main categories:

- Training directly related to your thesis work (6-15 pts).
- Training designed to broaden your scientific culture (6-15 pts).
- Training related to your future professional insertion either in the academic (or more generally in the public sector) or in the private sector (6-15 pts).

A general equivalence is also proposed: 1 point $\leftrightarrow$ 5h of training.
Training and complementary doctoral activities: the PHENIICS requirements

<table>
<thead>
<tr>
<th>Cours ED ou Master</th>
<th>2 pts forfaitaires + 1 pt/5h</th>
</tr>
</thead>
<tbody>
<tr>
<td>Manifestations scientifiques à vocation pédagogique (écoles d’été, workshops de spécialisation etc...)</td>
<td>5h = 1 pt (max 10 pts/catégorie)</td>
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<tr>
<td>Représentants étudiants dans les instances (conseil ED, labo, GS, fac ...)</td>
<td>1 mandat d’une année = 2 pts</td>
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<tr>
<td>Participation à des jurys, évaluations ... (ex: concours de l’ED)</td>
<td>1 pt/journée (max 3 pts)</td>
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<tr>
<td>Engagement dans une association étudiante (ex: D212)</td>
<td>1 pt/mandat d’un an (max 2 pts)</td>
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<tr>
<td>Organisation manifestation scientifique</td>
<td>PHENIICS Fest = 5 pts</td>
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<td></td>
<td>Autre : 1 pt/journée de conf. + 1 pt forfaitaire si présentiel</td>
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<tr>
<td>Encadrement de stagiaires</td>
<td>Forfait 3 pts</td>
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<tr>
<td>Mission d’enseignement</td>
<td>Prise en compte des formations suivies: 1 pt/demi-journée (max 5 pts)</td>
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<td></td>
<td>Prise en compte des heures d’enseignement : 5h ETD = 1 pt (max 7 pts)</td>
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<tr>
<td>Mission de médiation scientifique (ex : Palais de la Découverte)</td>
<td>Prise en compte des formations suivies: 1 pt/demi-journée (max 5 pts)</td>
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<tr>
<td></td>
<td>Prise en compte des jours : pts = jours activité/4 (max 5 pts)</td>
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<tr>
<td>Autres</td>
<td>Appréciation des référents.</td>
</tr>
</tbody>
</table>

- Warning: additional training is not an option, it is mandatory!
- Under no circumstances and under no pretext can your supervisor prevent you from taking this additional training.
- You should establish a clear training plan as soon as possible and discuss it with your supervisor.
- If you have any problems, do not hesitate to contact your ED advisor!

This correspondence table has been elaborated with the help of the doctoral students' representatives to the doctoral school council.
<table>
<thead>
<tr>
<th>PHENIICS Courses</th>
<th>Teacher</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Where do we stand in nuclear structure theory?</td>
<td>Jean-Paul EBRAN (CEA Bruyères-le-Châtel)</td>
<td>S1 2023</td>
</tr>
<tr>
<td>Cosmology of the dark universe: theory and observation</td>
<td>Yann Mambrini (IJCLab) &amp; Thibaut Louis (IJCLab)</td>
<td>S2 2022</td>
</tr>
<tr>
<td>Quarkonium Production</td>
<td>Jean-Philippe Lansberg (IJCLab)</td>
<td>S1 2023</td>
</tr>
<tr>
<td>Formation Geant 4</td>
<td>Laurent Garnier (IRISA), Ivana Hrivnacova (IJCLab), Marc Verderi (LLR)</td>
<td>S1 2023</td>
</tr>
<tr>
<td>Understanding basic principles of particle</td>
<td>Nicolas Delerue, David Longuevergne, Guillaume Martinet, Bruno Mercier,</td>
<td>S1 2023</td>
</tr>
<tr>
<td>accelerators</td>
<td>Luc Perrot</td>
<td></td>
</tr>
<tr>
<td>Beam manipulation for precision experiments</td>
<td>Enrique Minaya (IJCLab)</td>
<td>S1 2023</td>
</tr>
<tr>
<td>Flavour Physics: the CKM matrix and the CP Violation</td>
<td>Achille Stocchi (IJCLab)</td>
<td>S1 2023</td>
</tr>
</tbody>
</table>

NEW: Usually: 15 h, 3h/day during one week

to be announced soon: computer refresher course by D. Chamont et al.
please:

help us to enrich the offer of doctoral courses of the ED PHENIICS.

a huge majority of IJCLab-Orsay lecturers... while there are many talented people at IRFU Saclay too, and probably in other labs of the ED PHENIICS perimeter.

note:

we sometimes benefit from courses (in general “ultra” topical) taught by international experts who stay in our laboratories through various exchange programmes (e.g.: "visiting professors" etc.)

example last year: Basics of thermodynamics and hydrodynamics for heavy-ion physics
In order for ED to validate your participation in the course, it is mandatory that you have answered a satisfaction questionnaire
Training and complementary doctoral activities: a few loose tips

- discuss with your supervisor your participation in a summer school well in advance
- avoid procrastination: no overloaded programme in 3rd year!
- if in doubt, talk to your PHENIICS referent!!

Good training
and
welcome to PHENIICS doctoral school!