



Joint Education of PhD students (PhD@FR&PL)



IFJ PAN coordinator:
Mariola Klusek-Gawenda
mariola.klusek@ifj.edu.pl
+48 504 192 465



IJCLab coordinator:
David Verney
verney@ijclab.in2p3.fr
+33 1 69 15 48 52

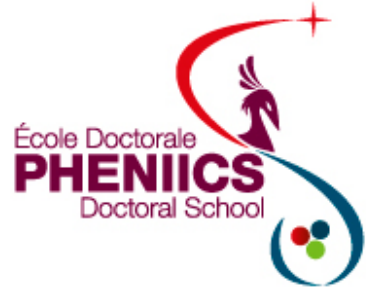
The project aims to establish cooperation involving preparing a doctoral training programme leading to a double/joint doctorate
our approach is to support all YOUR projects, as outlined today



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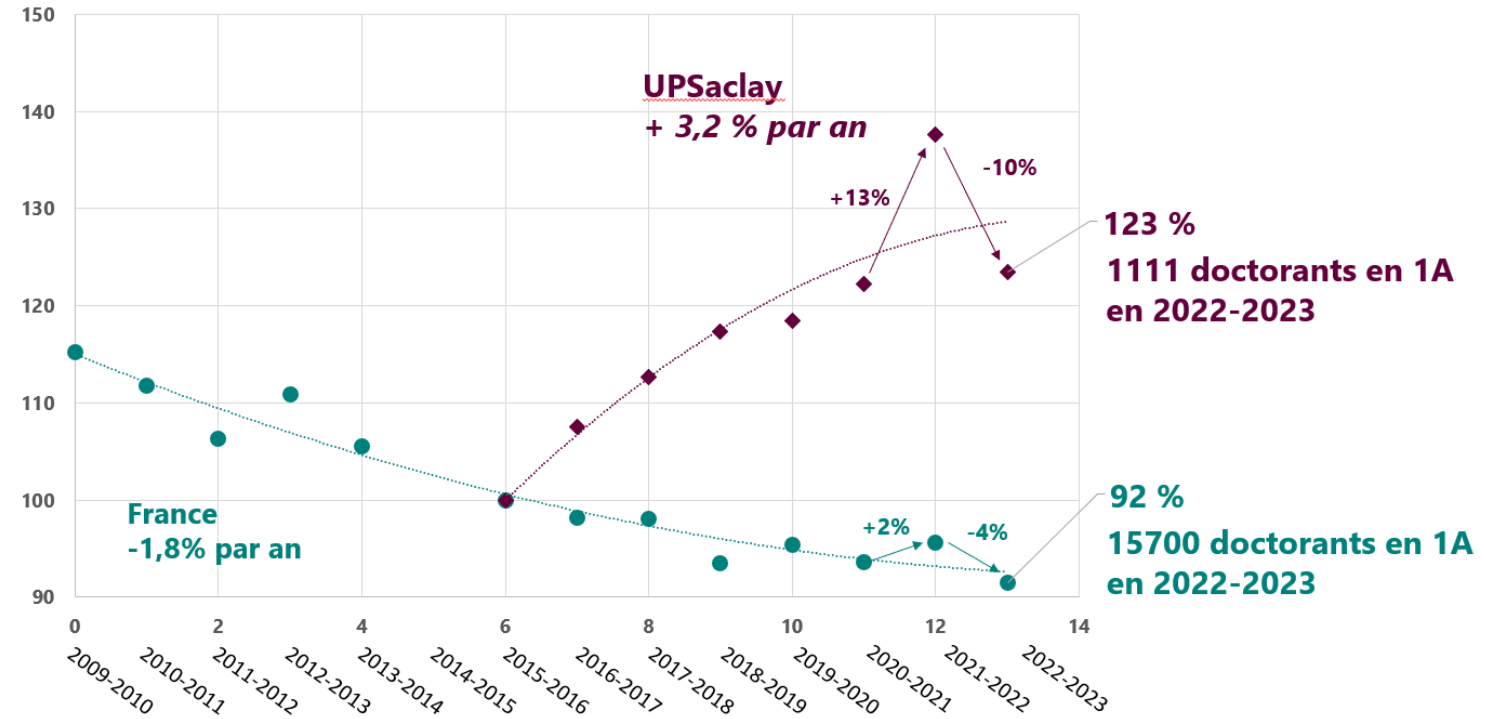


The PHENIICS (Particles, Hadrons, Energy, and Nucleus: Instrumentation, Imaging, Cosmos, and Simulation) doctoral school ID



Academic context

change in first-time doctoral enrolments since 2009-2010, base 100 in 2015-2016



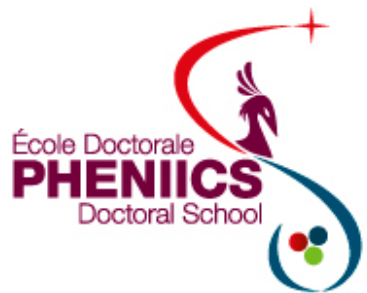
	2019-2020	2020-2021	2021-2022	2022-2023
	Nombre doctorants	Nombre doctorants	Nombre doctorants	Nombre doctorants
ABIES	172	199	207	213
AAIF 127	43	48	47	53
CBMS	207	195	190	190
DEM	268	270	271	265
EOBE	264	304	307	302
ITFA	290	274	300	278
INTERFACES	116	131	135	128
EDMH	162	172	177	177
EDOM	168	176	188	195
PHENIICS	177	198	208	210
PIF 564	175	192	210	200
EDSP	132	135	143	139
2MIB	273	302	334	332
SEIF 129	52	67	77	81
SSMMH	49	53	49	47
SEVE	93	101	108	113
STIC	460	499	558	564
SMEMaG	279	291	302	315
SSH	202	208	204	200
BIOSIGNE	85	90	89	105
SDSV	206	217	235	250
Toutes EDs	3873	4122	4339	4357



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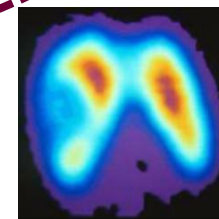
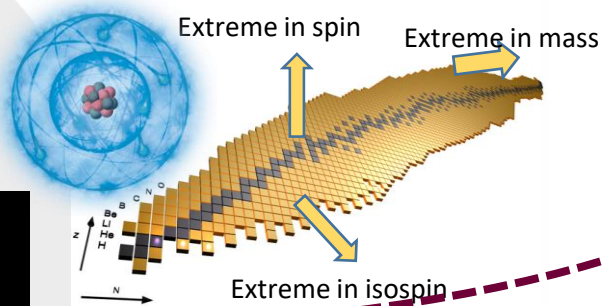
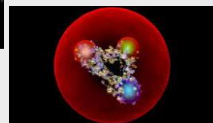
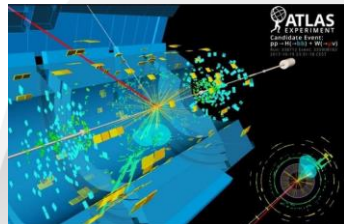


physics of the « 2 infinities »

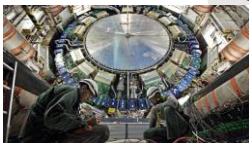
Nuclear astrophysics, nucleo-synthesis ; Cosmology, dark matter and energy



Particle (high energy) Physics, astroparticles ;
Nuclear & Hadron Physics



Accelerator physics



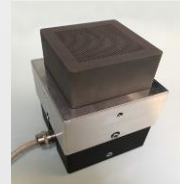
Detectors

nuclear energy



Back-end nuclear cycle, radiation protection and radiochemistry

material science

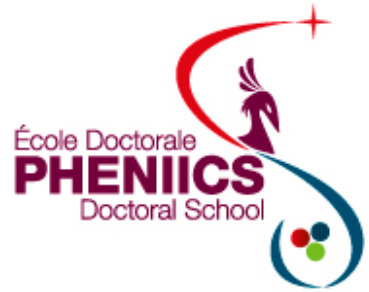


medical imaging and radioactivity

radio and hadron therapy



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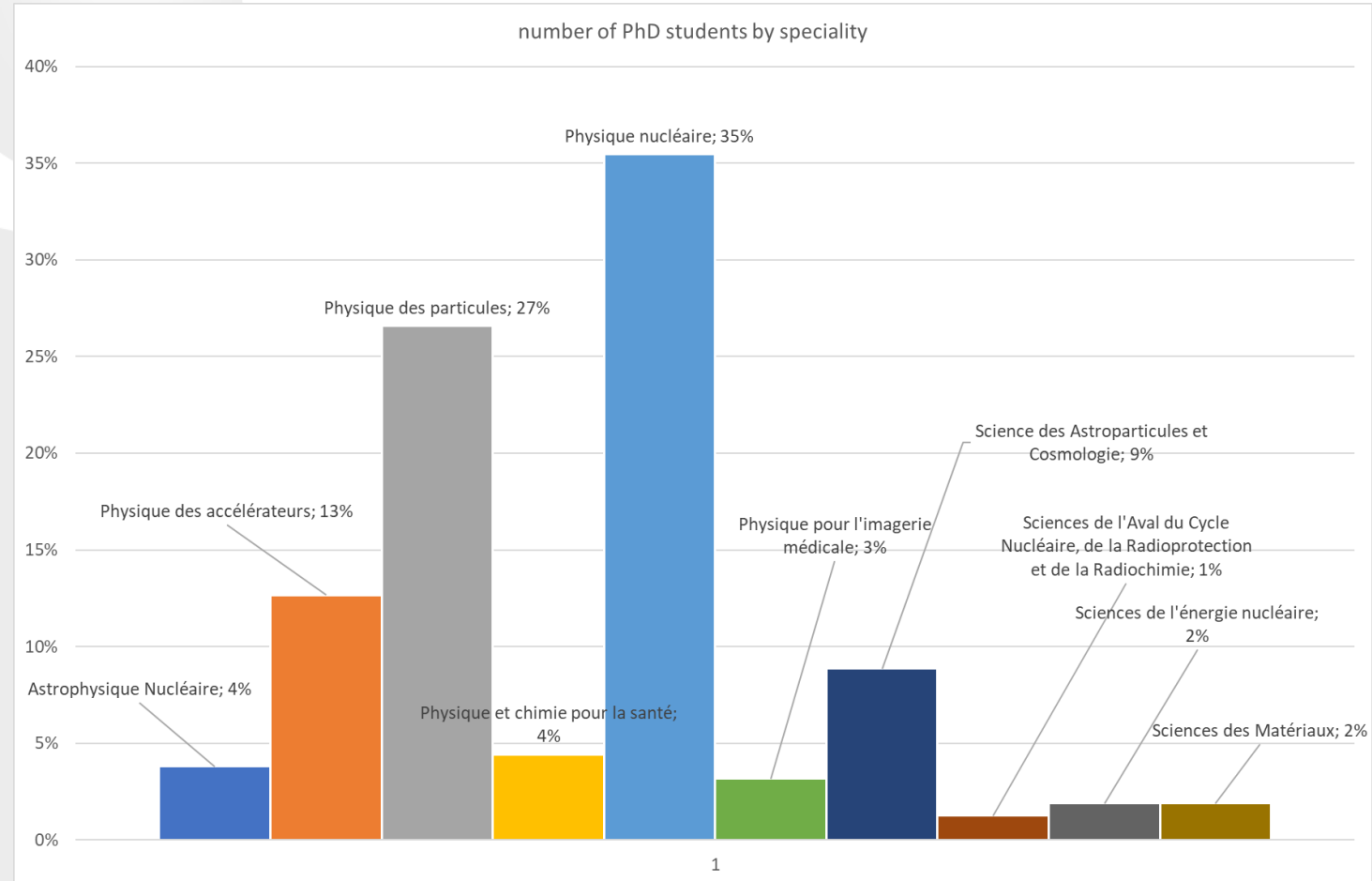
ED PHENIICS awards theses in the following specialties:

- Nuclear Astrophysics
- Accelerator Physics
- Nuclear Physics
- Particle Physics
- Physics for Medical Imaging
- Physics for Instrumentation
- Physics and Chemistry for Health
- Astroparticle and Cosmology Sciences
- Nuclear Cycle Downstream, Radioprotection, and Radiochemistry Sciences
- Nuclear Energy Sciences
- Materials Science.

58% international – 42% national

(37 nationalities !)

distribution of PhD students by specialty in 2022-2023 (total 208)





Krakow School of Interdisciplinary PhD Studies **KISID** was established in 2019. The school currently educates 109 PhD students:



The Henryk Niewodniczański Institute of Nuclear Physics PAS (IFJ)	→ 44 PhD students (15 foreigners)
Jerzy Haber Institute of Catalysis and Surface Chemistry PAS (IKiFP)	→ 20 PhD students (4 foreigners)
Jerzy Maj Institute of Pharmacology PAS (IF)	→ 20 PhD students (2 foreigners)
Institute of Metallurgy and Materials Science PAS (IMIM)	→ 19 PhD students
Strata Mechanics Research Institute PAS (IMG)	
Mineral and Energy Economy Research Institute PAS (IGSMiE)	
AGH University of Science and Technology in Kraków (WfiIS&WIMiC)	→ 6 PhD students

Education at Poland lasts 6 – 8 semesters and ends with submitting a doctoral dissertation. It is carried out through the implementation of an individual research program and education programmes.

As a result of education at the PhD School, a PhD student shall achieve the learning outcomes in the following categories:

- knowledge (a PhD student knows and understands)
- skills (a PhD student can)
- social competencies (a PhD student is prepared to)

20% international (@IFJ: 35%) – 80% national
(11 nationalities)

Education prepares for obtaining the doctoral degree and is conducted in the following disciplines:

- **physical sciences** (IFJ, WfiIS)
- chemical sciences (IKiFP)
- medical sciences (IF)
- pharmacology and pharmacy (IF)
- material engineering (IMIM, WIMiC)
- environmental engineering, mining and energy (IGSMiW, IMG)



IFJ PAN is the beneficiary of the STER Programme – Internationalisation of doctoral schools.
NAWA granted a system support package from Jan 2024 to Dec 2026.



The Program's main goal is systematic support for the internationalization of doctoral schools.

The Agency offered a system support package for a period of 3 years, the specific objectives of which were:

- improving the quality of education in doctoral school and the quality of research conducted by PhD students by using international experience in this field
- increasing the international mobility of PhD students
- developing internationalization activities “at home”
- scholarship support for foreign PhD students and PhD students from Poland implementing doctoral projects in international cooperation



the legal constraints on the side of IFJ PAN

A PhD student without a doctoral degree receives a doctoral scholarship.

The total scholarship payment period at the PhD School may not exceed 4 years. The period of 4 years does not include the period of suspension training. A PhD student who has submitted a doctoral dissertation before the date of completion of doctoral training specified in the training program shall receive a doctoral scholarship until this date, but not longer than for 6 months.

If the research topic being performed does not have external financing, the obligatory doctoral scholarship is paid from the institute's subsidy.

The amount of the monthly doctoral scholarship depends on the professor's salary – up to the month in which the mid-term evaluation was conducted - 600 Euro gross (~540 Euro net); 57% of the professor's salary – after the month in which the mid-term evaluation was conducted- – 930 Euro gross (approx. 830 Euro net).



the legal constraints on the side of universit  Paris Saclay

Enrolment in ED PHENIICS is conditional on the doctoral student's **obtaining funding for the duration of the doctorate**, to ensure that the doctoral project runs smoothly. Funding is compulsory up to the date set for the defense at the time of registration, including for registrations beyond the 3rd year of doctoral studies.

The minimum funding threshold for doctoral students is set by the University of Paris-Saclay's doctoral regulations. Whatever its nature, salary or scholarship, it can never be less than the minimum required to obtain a Passeport Talent.

In the case of a co-supervised international thesis, periods spent in France by the doctoral student are subject to the above funding conditions. It is verified that the remuneration and working conditions outside the stay in France are compatible with the progress of the research work.



ways forward: the different scenarios



1) The royal road: the cotutelle agreement

everything is defined : duration of stay in each institution, composition of the jury, rules and conditions of defense, co-supervisors' roles, payment of tuition fees etc etc

it is very rewarding : the doctoral student graduates simultaneously in both universities (gets double diploma) even if there is a single defense

mandatory : at least one year at UPSay or at the partner university

université
PARIS-SACLAY



Agreement on joint international supervision ("cotutelle") of Doctoral Thesis (PhD)

Preamble

In accordance with the French Code of Education, in particular its articles L. 123-7, L. 612-7, D. 611-1 to D. 611-6, D. 123-13 and with D. 123-14, and with the Ministerial Order of 25th May 2016 concerning the doctoral training, in particular its article 21, and in due observance of the Ph.D. regulations of University College Dublin:

- **Université Paris-Saclay**, abbreviated as **UPSaclay**, a public institution for scientific, cultural and professional development, created under the Decree nb. 1131/2019 of 5th November 2019,

located at 3, rue Joliot Curie, bâtiment Breguet, 91190, Gif-Sur-Yvette, France, represented by its President, Prof. Sylvie RETAILLEAU,

and

- **University College Dublin**, abbreviated as **UCD**

located at Belfield, Dublin 4, Ireland represented by Prof. Barbara Dooley

have consented to enter into an Agreement for the joint international supervision of a doctoral thesis (hereafter referred to as "the Agreement"), in order to specify the administrative and pedagogical arrangements for the preparation by:



1) COTUTELLE

Application

- 2) CV
- 3) Description of the research project (max 2 pages) including:
- 4) - Project description
 - Main stages of research work
 - Expected dates of stay in France
- 5) - Motivations and long-term prospects for pursuing a PhD and expectations regarding the project (career, starting cooperation with French partners)
- 6) Letter of recommendation written by thesis supervisors, agreement between the Polish and French universities
- 7) Supplement: extract of grades from the last two years of study

SELECTION OF CANDIDATES

Scholarship applications are considered by the university and scientific cooperation department of the French Embassy in Poland.

The image shows the cover of a document titled "Agreement on joint international supervision ('cotutelle') of Doctoral Thesis (PhD)". The document is from Université Paris-Saclay and University College Dublin (UCD). It includes a preamble and details about the institutions involved.

université PARIS-SACLAY

UCD DUBLIN

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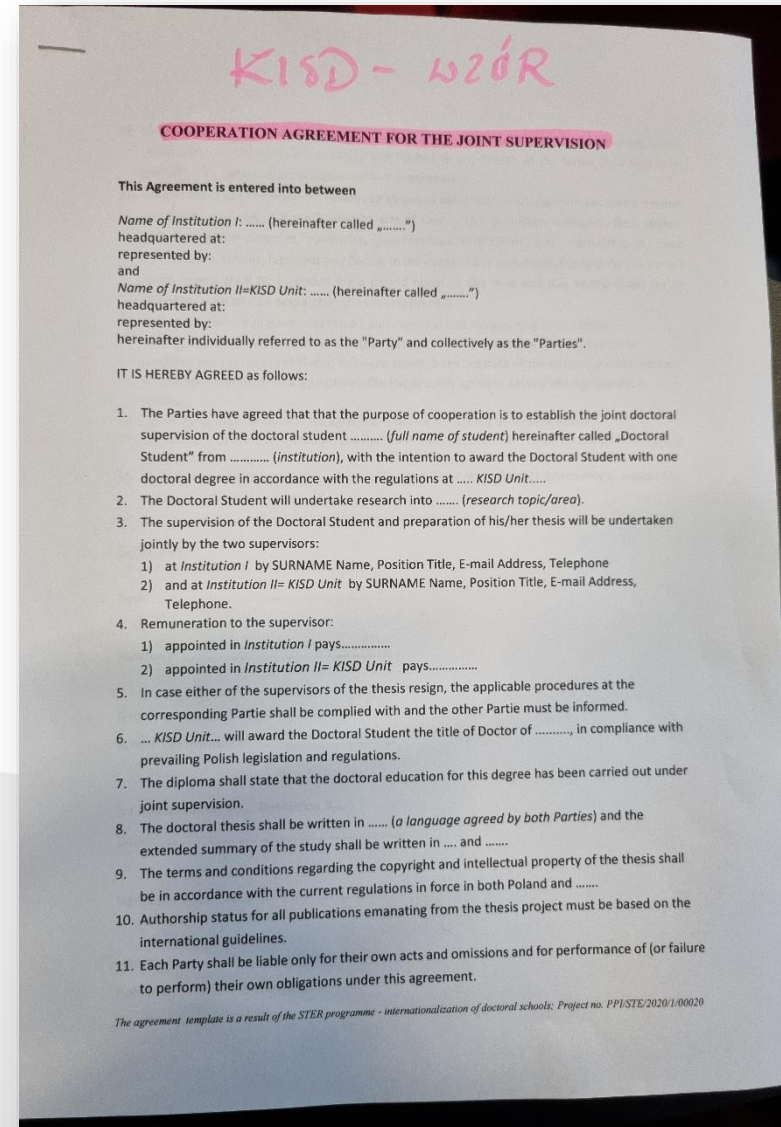


2) The (international) co-supervision

joint scientific program, two supervisors are appointed, one in each institution, but there is only one diplomation process

no formalization through a cotutelle agreement needed

duration of stay in both institutions : totally free





funding schemes



1) co-funding

a) ADI - International doctoral Cotutelle funding programme (1/2 funding obtainable)

As part of **the funding program for international joint doctoral degrees**, the university offers financial support for pursuing a PhD degree jointly with a partner institution abroad.

The conditions of the project must **comply with Université Paris-Saclay Doctoral Charter**, the **national regulatory framework** and the **internal regulations** of the **doctoral college and the doctoral school**, as well as the **regulations of the partner country and the internal regulations** of its institution.

- 1 - The project must be part of **an international cotutelle of doctorate**
- 2 - **The foreign partner institution must be accredited to award the double doctoral degree** and have given an explicit agreement in principle to the establishment of the **international cotutelle of doctorate**
- 3 - The thesis supervisor at the foreign partner institution undertakes to co-supervise the thesis and supports the application and the project
- 4 - **The doctoral student's host research unit** in France must be part of Université Paris-Saclay (**see the list of units**) and the doctoral student **must be admissible by one of the doctoral schools** of Université Paris-Saclay, subject to obtaining funding from both institutions
- 5 - **The partner institution/country certifies its commitment to finance the doctorate under cotutelle**, for a minimum duration of 12 months and in all cases, for the complementary duration to the number of months requested in the framework of this programme.
- 6 - The duration of the stay at Université Paris-Saclay and the partner institution is a minimum of **12 months**.



funding schemes



1) co-funding

b) obtain 1/2 funding at the regular doctoral school funding scheme (“white programme” contest of the Graduate School of physics organized by the doctoral school PHENIICS – 15 full 3-years contracts in total per year)



funding schemes



2) single funding

for example : obtention of a 3-years duration funding at the regular doctoral school funding scheme \Rightarrow no cotutelle agreement possible, single diploma at Paris Saclay , but long-term stays at Krakow may be arranged (co-supervision always possible)

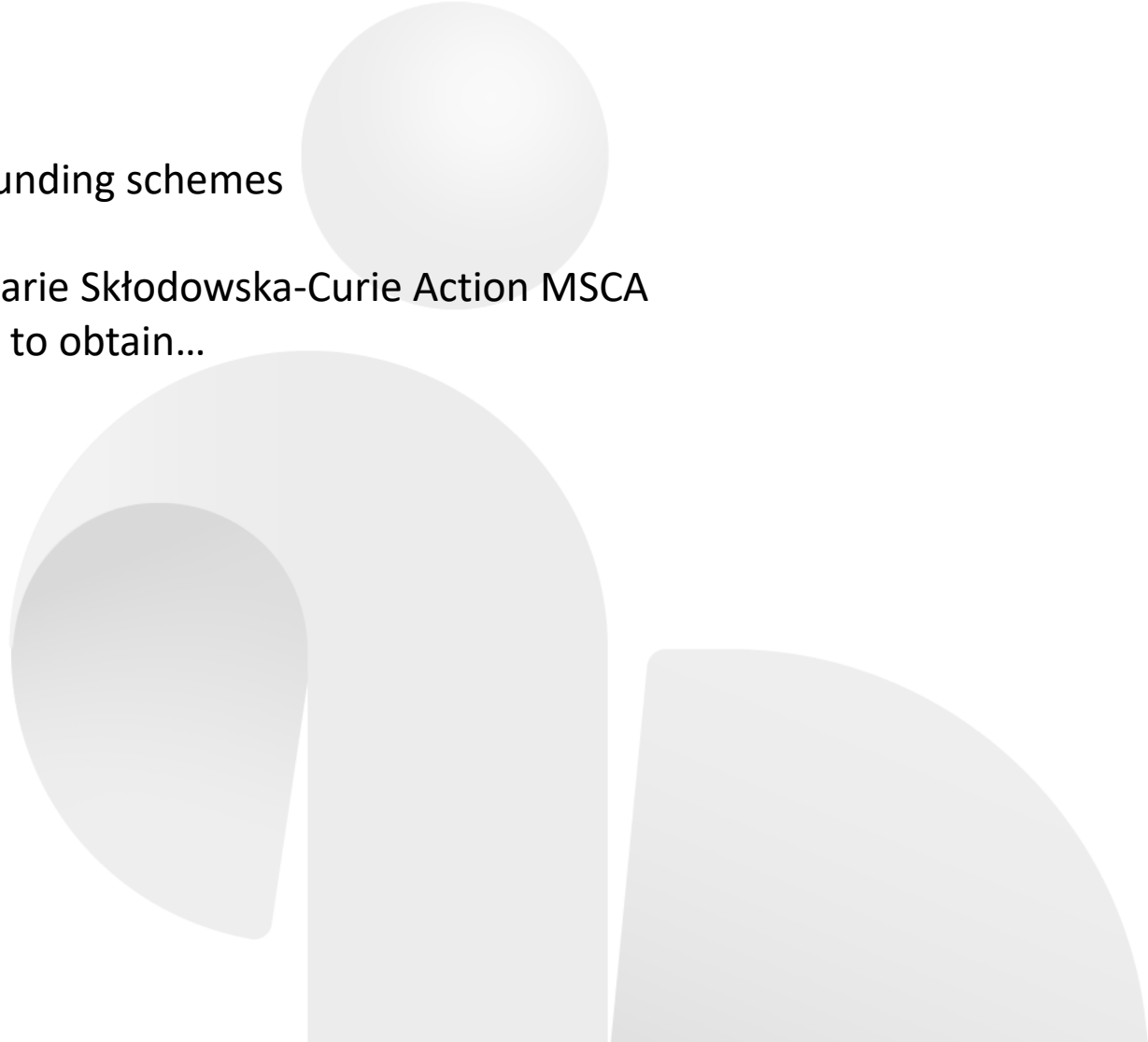


funding schemes



3) European funding schemes

for example : Marie Skłodowska-Curie Action MSCA
might take time to obtain...





conclusion and summary



Goals :

- Prepare an agreement describing the way in which the cooperation aimed at obtaining a double doctorate between the doctoral school of KISD and the PHENIICS doctoral school of Université Paris Saclay will be implemented.
- Identify the persons responsible for the implementation of the agreement.
- Organise regular meetings of the programme coordinators
- Carrying out the selection procedure for doctoral candidates and identifying supervisors from both units.
- Apply for research funding in research grants (e.g. Cotutelle and/or ADI calls at UPSay, Codirection, Marie Skłodowska-Curie Action MSCA, direct funding from IJCLab and/or IFJ-PAN)
- Continuous contact with the coordinators of the other groups involved in the project -> informing potential promoters about the competitions we can apply to.