

- Welcome again :-)
- Continuing students:
  - \* you probably know most of what will be on the slides, but maybe something new will appear
- New students: Welcome :)
  - \* I'll try to explain some general things about the PhD programme and school
- After: Student council elections and other business
- Please ask questions throughout

# Overview of doctoral studies in physics



## International PhD Studies at IFPAN

*Students who started **spring 2019 or earlier***

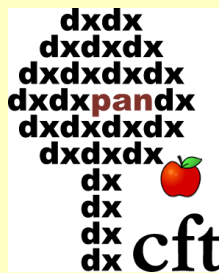
Administration run by IFPAN



36



9



6

*total 51 PhD students*

Running till end of 2023



## PhD School "Warsaw4PhD"

*Students who started **autumn 2019 or later***

Administration run through each institute individually

Some centralisation through Nencki institute



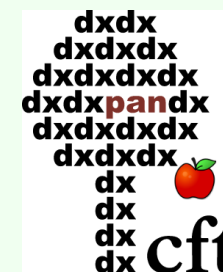
9 institutes, 3 in physics:



46



18



13

*physics total: 77 (incl 8 to arrive)*

- Nencki Institute of Experimental Biology PAN



*(Administrative Head)*

*Biology Specialisation*

- International Institute of Molecular and Cell Biology PAN



- IFPAN Institute of Physics PAN



- CFT Centre for Theoretical Physics PAN



*Physics Specialisation*

- IWC Institute of High Pressure Physics PAN



- IChO Institute of Organic Chemistry PAN



*Chemistry Specialisation*

- IChF Institute of Physical Chemistry PAN



- Maria Skłodowska-Curie National Research Institute for Oncology



- Institute of Psychiatry and Neurology



*Medicine Specialisation*



## INSTITUTE of PHYSICS Polish Academy of Sciences

- IP PAS
- General info ▾
- Organizational structure ▾
- Activities ▾
- Centres of Excellence ▾
- Miscellanea ▾
- Institute's offer ▾

Library Journals Webmail



Guide to the Institute  
Virtual Tour of the Institute

Colloquium IP PAS  
Student internship at IP PAS  
PhD projects  
Seminars  
Conferences  
Welcome Centre

Databases at IP PAS  
Public contracts

Project MagTop   
Project TechMatStrateg  
POIG 1.1.2 - Key Project   
Project EAgLE   
Project Baltic TRAM   
Project MSCA POLONEZ   
European Structural Funds

**PhD School**  
**International PhD Studies**  
**ERASMUS Project**  
**Acta Physica Polonica A**

### NEWS AND EVENTS

The inauguration of the 2021/2022 academic year for Warsaw PhD School in Natural and BioMedical Sciences will be held at IF PAN on the 4th October at 10:00.

All interested persons are invited to attend via Zoom.  
04.10, Institute of Physics PAS

Results for project Opus 20  
20.05, Institute of Physics PAS

Results for the DAINA 2 call for Polish-Lithuanian research projects were announced  
10.05, Institute of Physics PAS

We are pleased to announce that the National Agency for Academic Exchange granted the Institute of Physics of the Polish Academy of Sciences under the "Welcome to Poland" program in the amount of PLN 295,050.00 for the project entitled: "Institute of Physics of the Polish Academy of Sciences for Foreigners"  
10.05, Institute of Physics PAS

Dr. Alexander Lau won the Marie Skłodowska-Curie Individual Fellowship  
10.02, Institute of Physics PAS

Institute of Physics among the signatories of the letter of intent on the coordination of activities for the development of Polish quantum research  
09.02, Institute of Physics PAS

Dr. Marcin Płodzień and Dr. Alexander Lau are beneficiary of programs financed by NAWA  
08.01, Institute of Physics PAS

Winner of the NCN CEUS-UNISOLO competition  
05.01, Institute of Physics PAS

Changing the rules of IP PAS Library work  
04.01, Institute of Physics PAS

XII Symposium of PhD Students (Zoom platform)  
Schedule and Abstract Book  
03 - 04.12, Institute of Physics PAS

Winners of Opera 19 and Preludium 19 competitions  
24.11, Institute of Physics PAS



We are happy to announce that Professor Grzegorz Karczewski was awarded the Marian Smoluchowski and Emil Warburg Prize

### PRESENT SEMINARS

Roentgen seminar  
Wzrost nanodrutów ZnO metodą termowąglową (in Polish)  
(W. Zajkowska, B. Kurowska, K. Fronc, H. Teisseyre oraz S. Kret)  
Tuesday, October 5, 10:30  
On-line seminar

Condensed matter physics seminar  
High-temperature superconductivity theory: quantitative comparison with experiment for the cuprates  
Tuesday, October 5, 14:00  
On-line seminar

Magnetism and superconductivity seminar  
Topological semimetal TaAs<sub>2</sub> investigated by transport and ARPES  
Wednesday, October 6, 10:00  
On-line seminar

Fundamentals of physics seminar  
Mathematics and Physics  
Wednesday, October 6, 11:00  
On-line seminar

Biological physics and bioinformatics seminar  
Old pathway - new insights: on purine biosynthesis and human evolution  
Wednesday, October 6, 15:15  
On-line seminar: <https://zoom.us/j/92872650351>

### JOB OFFERS

MSc Student - scholarship holder: Point contact spectroscopy of MBE grown IV-VI heterostructures  
27.09 - 29.10

Post-doc: conducting experimental research of topological matter  
16.09 - 24.10

- **PEOPLE:**

- \* **IFPAN + MSD:**

- **PhD office:** Ms Elżbieta Fraćkiewicz  
Room 216, Building 1 (2<sup>nd</sup> floor)  
[sekretariat\\_msd@ifpan.edu.pl](mailto:sekretariat_msd@ifpan.edu.pl)
    - **Welcome Centre:** Ms Anna Senchenko  
Room 6, Building 2 (ground floor)  
[WelcomeCentre@ifpan.edu.pl](mailto:WelcomeCentre@ifpan.edu.pl)
    - **Head:** Piotr Deuar  
Room 6, Small house on the prairie (building XV)  
[deuar@ifpan.edu.pl](mailto:deuar@ifpan.edu.pl)

- \* **IWC:**

- **Head:** Stanisław Krukowski  
[stanislaw.krukowski@unipress.waw.pl](mailto:stanislaw.krukowski@unipress.waw.pl)

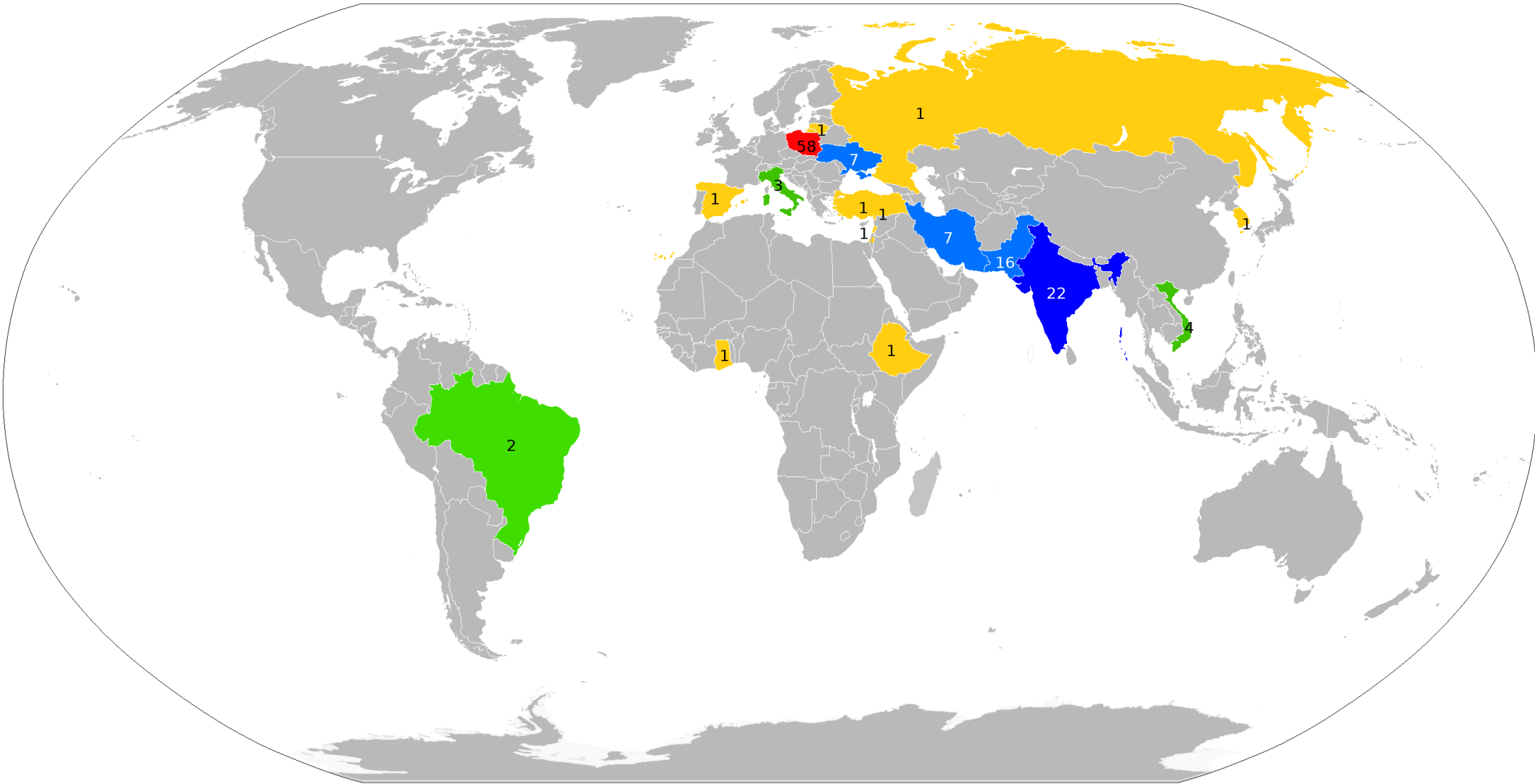
- \* **CFT:**

- **Head:** Maciej Bilicki  
[bilicki@cft.edu.pl](mailto:bilicki@cft.edu.pl)

- **INFORMATION:**

- \* *ifpan.edu.pl* → *PhD School, PhD studies*
  - \* *warsaw4phd.eu*

# Current students (MSD + Warsaw4PhD physics)



- Semester 1

- \* Lectures 5 October 2020 → beginning February 2021
- \* [PhD symposium 2021](#) : hopefully in person; hopefully November
  - 2<sup>nd</sup>, 3<sup>rd</sup> year PhD students present
  - All PhD students bug the speakers with questions. Yes?

- Semester 2

- \* Lectures 21 February 2022 → ~ end June 2022
- \* [PhD symposium 2022](#) : Summer 2022.
  - Probably (?) in person

- Summer:

- \* Yay – just research!

*p.s. PhD students have 40 working days of leave per calendar year (or part of) does not carry across to new years except for 1<sup>st</sup> autumn three months.*

- Still going strong because people don't want to vaccinate. Grrrrr.
- Please keep to epidemic regulations. Current summary:
  - \* VACCINATE already. Vaccines are free in Poland, no queues.
  - \* Wearing masks: closed public places (in shops, etc) not on street  
At the institute: always in the corridors, grounds, at admin.
  - \* Wash hands, always before eating etc.
  - \* Air rooms regularly.
  - \* Overseas travel is possible; BUT will get quarantined if coming back from outside of Schengen and not vaccinated.
  - \* Reduce personal contact, especially with administration. Email!
  - \* **If you feel sick: tell boss and OHS officer; DO NOT come to work**
  - \* **IFPAN: The Director can delegate you for remote work at home due to epidemic considerations.**
- At the moment: All classes and courses take place remotely. Still. We'll see later.
- **Research work on-site is basically unchanged.**



*details may differ at  
CFT and IWC !*

- Overseas travel is possible
- BUT will get quarantined 10 days if coming back from outside of Schengen and not vaccinated with 2 doses of EU approved vaccines > 14 days ago
- New PhD students coming from overseas:
  - \* Need to stay away from Institute and common areas of the guest house (kitchens etc) for 10 days of “*self-isolation*” if coming from outside of Schengen+ region, and not vaccinated with 2 doses of:  
*Pfizer, Moderna, AstraZeneca, Janssen*
  - \* Apart from that, state quarantine is not generally imposed on students arriving to begin studies (even from outside the Schengen area). You are “free” to do what you like in Warsaw, meet friends, etc, but please take care when meeting.
  - \* To arrange starting work in the case of self-isolation:
    - documents will be sent via PDF etc. via email
    - at home please sign, scan/photo and send back via email
    - when you come to the institute eventually, bring the paper versions.
- There may be some differences of procedure at CFT and Unipress.

# To do list for new arrivals (IFPAN)

***(more details on website)***

- Arrive when you can. We know travel and visas are tough these days.
- You can attend remote classes already.
- After arrival, contact PhD secretariat and supervisors.
- Send filled documents to the PhD office. Most most important ones are:
  - \* MsC diploma, ID,
  - \* student oath (determines starting date)
  - \* ZUS ZUA forms (pink colour) to [register for social security and health insurance](#)
- Organise medical checkup via the OHS office, PhD secretariat
- Fill out many small forms and stuff. Get an institute email.
- Immediately or after 10 days: come to the Institute :-)
- Things to get:
  - \* Student ID: doubles as a place to keep public transport ticket
  - \* Keycard
  - \* PhD student status form from the PhD office (useful for further formalities)
  - \* Sign scholarship agreement (if applicable), get formal scholarship decision.
- Get local bank account
- Overseas students:
  - \* register place of residence
  - \* apply for a [temporary residence permit](#)
- Prepare 1<sup>st</sup> year plan
- Get supervisor(s) officially approved by Scientific Council (keep an eye on it).
- There may be some differences of procedure at CFT and Unipress.

*details may differ at  
CFT and IWC !*

- The lecture list is on the website
- Many subjects continue over 2 semesters
- Core subjects at IFPAN:
  - \* Intro to Modern Physics & Solid state physics: repeat every year
  - \* Other core subjects for specialties: repeat in 2 year cycle
- Lectures in other Institutes – on warsaw4phd.eu, or will appear soon?
- Lectures/Seminars outside the School (e.g. University of Warsaw)
- Soft skills courses appear every so often
- *Experimental techniques* course (lab tours) will start when Covid goes away
- **Aim to get all the lectures etc. done in the first two years, so you can just do research later.**
- **Student symposia:**
  - \* **Once a year**
  - \* **organised by the students**
  - \* **Conference format – 2-3 days**

*details may differ at  
CFT and IWC !*

# 1<sup>st</sup> Year plans (new students, PhD school)

- Start on this when you can come to the institute.
- Please discuss with supervisor, then bring to **local head**
  - \* They'll approve or propose amendments.
- Guidelines at IFPAN (see webpage for details):
  - \* Which **speciality**? Solid state / atomic & molecular / biophysics
    - affects PhD exam questions after 4 years
  - \* Choose 2 ±1 lectures per semester
  - \* Choose Journal club / PhD student seminar
    - Plan to give presentation 1/year
  - \* Find out what your department seminar is
    - Plan to attend and give presentation 1/year
  - \* Soft-skills training will be announced as it appears
  - \* English & Polish classes do not give credit points (ECTS) but may be useful
- **After 1 year: prepare Individual Research Plan for all 4 years.**

- MSD Students:

- \* Yearly reports
  - Progress assessed at end of each year
- \* Years are “flexible” - counting from your start date
- \* Final exams for PhD:
  - If your procedure is already “open” : Old-style exams (Physics, English\*, One other subject)
  - All “open procedures” must be closed by the end of 2022 (extended 1 year due to COVID)
  - Otherwise: new procedure, similar to PhD school, but as an “external” student.

- PhD School:

- \* Years are also “flexible” - counting from your start date.
- \* half-yearly reports at the end of each semester (set dates)
  - Progress assessed at end of each year
- \* Major “mid-term” report after 2 years
  - → Externally assessed “Mid-term examination”
  - IMPORTANT
- \* Final exams for PhD:
  - Physics exam (questions from general physics + chosen specialty)
    - questions on the website
  - Need to have a level B2 English certificate or equivalent attestation (e.g. completion of masters in Poland)
  - Don’t have? We have organised a standard procedure through the Warsaw Technical University

- Endeavour to enjoy your research. A PhD does not play by “normal job” rules.
  - \* If you're not enjoying it, change what needs to be changed.
  - \* Do not fear to be bold. One has to start sooner or later in this business.
- **Publish!**
  - \* Be 1<sup>st</sup> author on some papers
  - \* Avoid the dreaded *LPU* (*least publishable unit*)
- Practice public speaking about your research!
  - \* Academia won't let you get away from research presentations
- Apply for grants! esp. NCN PRELUDIUM in the middle/2<sup>nd</sup> half of your PhD
- Don't be afraid to contact us
  - \* Especially if you are having problems!
- Participate in student matters e.g. the student council, committees
- Good luck! May all four physical forces be with you.