

Summary of CTP PAS scientific activity in 2025

CTP PAS Scientific Council Meeting
April 17, 2026
Warsaw



Our logo after renovation in 2024

Publications and researchers

2024

91 articles:

- 9 articles for 200 points
- 51 articles for 140 points

Number of researchers (Dec 31)

- 33 employees
- 9 PhD students

2025

108 articles:

- 12 articles for 200 points
- 61 articles for 140 points

Number of researchers (Dec 31)

- 43 employees
- 13 PhD students

- more than 100 presentations
- 28 interns

**Publication list attached
to the report**

New projects

2024

National (4)

- NCN Maestro (A. Janiuk)
- NCN Preludium BIS (J. Korbicz)
- NCN Sonata (M. Jaber)
- NCN Opus (K. Pawłowski)

International (4)

- EU ERA Chair (K. Pawłowski/R. Augusiak/M. Kacprzak/M. Matuszewski/A. Raiter-Smiljanic/M. Szymańska)
- EU QEC4QEA (M. Oszmaniec/R. Augusiak)
- EU-NCN QuantERA (M. Oszmaniec)
- EU EPIQUE (M. Oszmaniec)

Total number of projects: 30

2025

National (4)

- NCN-Weave UNISONO (M. Korzyński)
- NCN Sonata (P. Lipka-Bartosik)
- NCBiR QEC4QEA (M. Oszmaniec)
- FNP MAB FENG (R. Augusiak/M. Matuszewski/M. Oszmaniec/K. Pawłowski/A. Raiter-Smiljanic)

International (2)

- ERC Synergy (P. Chruściel)
- EuroQHPC-Integration (M. Oszmaniec)

Total number of projects: 33

**List of projects is also attached
to the report**

ADVANCED MATERIALS

Research Article | [Open Access](#) | 

Perovskite Microwires for Room Temperature Exciton-Polariton Neural Network

[Andrzej Opala](#), [Krzysztof Tyszka](#), [Mateusz Kędziora](#), [Magdalena Furman](#), [Amir](#), [Stanisław Świerczewski](#), [Marek Ekielski](#), [Anna Szerling](#), [Michał Matuszewski](#), [B...](#)

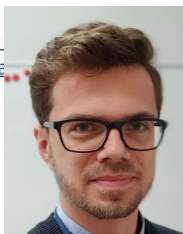


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LASER & PHOTONICS REVIEWS

Research Article | [Open Access](#) | 

Pulsed Quantum Excitation

[Juan Camilo López Carreño](#) 



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Reports on Progress in **Physics**

REVIEW

On the fluctuations of the number of atoms in the condensate

Maciej B Kruk, Piotr Kulik, Maltthe F Andersen, Piotr Deuar, Mariusz Gajda, [Krzysztof Pawłowski](#), Emilia Witkowska, Jan J Arlt and [Kazimierz Rządewski](#)



Reports on Progress in **Physics**

PAPER • **OPEN ACCESS**

Entanglement witnesses for stabilizer states and subspaces beyond qubits

Jakub Szczepaniak, Owidiusz Makuta and Remigiusz Augusiak*

Published 20 November 2025 • © 2025 The Author(s). Published by IOP Publishing Ltd

LASER & PHOTONICS REVIEWS

Research Article | [Open Access](#) |

Pulsed Quantum Excitation

[Juan Camilo López Carreño](#)



**Projects Department
is growing!**

Dorota Sierak
*Projects Financial
Coordinator*

Krzysztof Szczygielski
*Administrative Assistant
for Research Projects*

**New people yet to
come!**

Important facts

**Projects Department
is growing!**

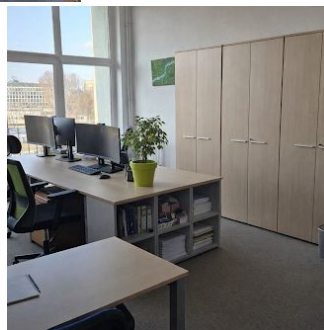
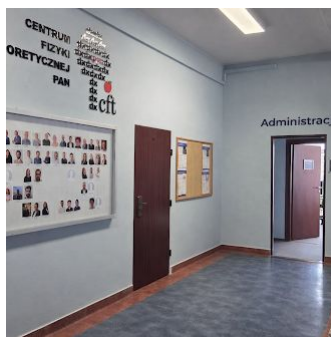
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*Projects Financial
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Krzysztof Szczygielski
*Administrative Assistant
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**New people yet to
come!**

**Second part of renovation
accomplished!**

June-September 2025



Important facts

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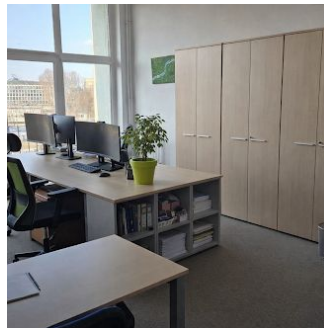
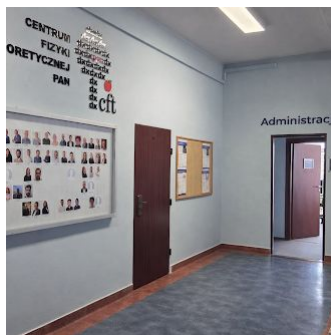
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New Accountant Department

Magdalena Kłap
Deputy Chief Accountant

Sebastian Kalata
Accounting Assistant

**Application to the Ministry of
Science and Higher Education
for the purchase of a building**



Ministry of Science
and Higher Education

Republic of Poland

**Relocation from the Warsaw Uni of Technology
to the office building on Rzymowskiego street**



December 2025

Related also to the FNP IRAP project

Important facts



**EU ERA Chair
(2,5 mln euro)**

**Prof. M. Szymańska
+
new research group**

**New regulations
and
better administration**

**Opening for a
tenure-track position
at CFT PAN**

Kick-off meeting



Important facts



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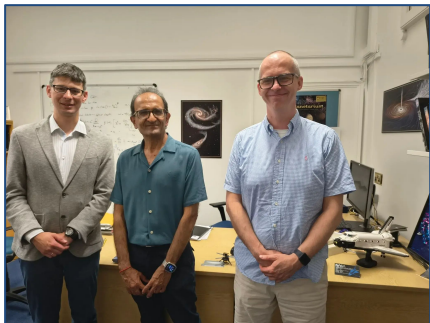
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Study visits



**Next study
visit at ICFO
in May!**



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**ERC Synergy
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**dr Patryk
Lipka-Bartosik joins
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+
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**QuRAK
Teaming for
Excellence
project**



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**International
Research Agendas
(30 000 000 PLN)**



C4QEC

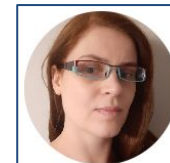
**CENTER FOR
QUANTUM-ENABLED
COMPUTING**



**ERC Synergy
“Gravites”**



**Prof. Piotr Chruściel
+
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European Funds
for Smart Economy

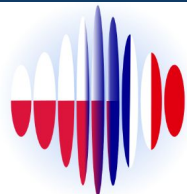


Republic
of Poland

Co-funded by the
European Union

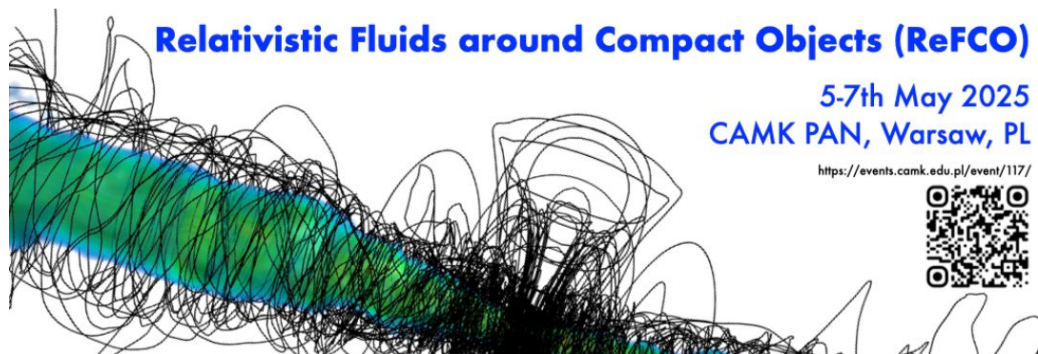


Conferences, workshops



Polish–French Symposium III
Advances in the physics of ultracold matter
Paris, 11 – 13 June 2025

K. Pawłowski



Relativistic Fluids around Compact Objects (ReFCO)

5-7th May 2025
CAMK PAN, Warsaw, PL

<https://events.camk.edu.pl/event/117/>



A. Janiuk

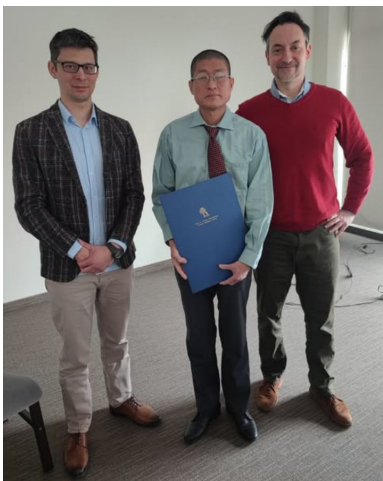


M. Matuszewski



R. Augusiak/W. Bruzda/A. Konderak/J. Korbicz

PhD theses defended in 2025



dr Tae-Hun Lee
Supervisor: dr hab. Jarosław Korbicz
Thesis: *Objectivity in open quantum systems*



dr Paweł Drozda
Supervisors: dr hab. Wojciech Hellwing,
dr hab. Maciej Bilicki
Thesis: *Higher Order Statistics of the Large Scale Structure*

dr Maciej Marciniak
Supervisor: dr hab. Krzysztof Pawłowski
Thesis: *Super-Tonks-Girardeau effect in the low-dimensional Bose gases with competing interactions*



Challenges

Find new space!



Develop new center!

**International
Research Agendas
(30 000 000 PLN)**



C4QEC

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QUANTUM-ENABLED
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Republic
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Co-funded by the
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**Application to the Ministry of Science and
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**Ministry of Science
and Higher Education**

Republic of Poland

