



THE HENRYK NIEWODNICZAŃSKI  
INSTITUTE OF NUCLEAR PHYSICS  
POLISH ACADEMY OF SCIENCES

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# The Institute a THOUSAND times the best

Newsletter of the Henryk Niewodniczański Institute of Nuclear Physics  
Polish Academy of Sciences

No. 2/2021 March 2021



# Current affairs (December 2020 – March 2021)

1. **Summary of events**
2. **Activities of the groups within the HR Excellence in Research distinction**
3. **Awards and distinctions**
4. **Events and conferences**



# Current affairs – a summary

- **Periodic Evaluation of IFJ PAN Research Staff Members covering the years 2017-2020**  
(February-April 2021)
- **Approval of the detailed IFJ PAN annual research plan 2021**  
(<https://www.ifj.edu.pl/dzialy/don/dzialalnosc-statutowa/>)
- **Training for employees and PhD students on “Mobbing, discrimination and harassment and their prevention”** (presentation at: [www.ifj.edu.pl/dla-pracownikow/komisje/komisja-antymobbingowa/](http://www.ifj.edu.pl/dla-pracownikow/komisje/komisja-antymobbingowa/))
- **Conducting a survey examining possible exposure to workplace harassment at IFJ PAN**
- **Introduction of new regulations on awarding public procurement contracts and procedures not covered by the Act on Public Procurement Law**
- **Training on “Public Procurement Planning”**
- **Determination of the financial plan and the public procurement plan for 2021**



# Current affairs – a summary

- **Introduction of the Regulations on the IFJ PAN Company Social Benefit Fund and appointment of the Social Affairs Committee**
- **Changing the composition of the Occupational Safety and Health Committee**
- **Determination of principles governing the procedure for the recognition of academic degrees and degrees related to art and the amount of the fee for conducting the procedure for the conferment of an academic degree**
- **Completion of an investment project related to the replacement of transformers in Building 6**
- **Establishing the rules of operation of the Employee Capital Plans at IFJ PAN**
- **Implementation of new office and archives regulations**
- **Discussion of the results of an internal audit on the compliance with personal data protection principles** ([www.ifj.edu.pl/rodo/prezentacje/prezentacja\\_RODO\\_dla\\_pracownikow\\_2020.pdf](http://www.ifj.edu.pl/rodo/prezentacje/prezentacja_RODO_dla_pracownikow_2020.pdf))
- **Information about external competitions**



# Horizon Europe

- Horizon Europe (2021-2027) is the EU research and innovation program which will replace Horizon 2020.
- Budget: **ca. €95,5 billion**



- **April 16, 2021 “Europe. A horizon of possibilities”** – an online conference organized by the *National Contact Point for Research Programmes of the EU* and the *National Centre for Research and Development*. Detailed information and registration will soon be available at **[www.kpk.gov.pl](http://www.kpk.gov.pl)**



## National Science Centre

- **OPUS 21 and PRELUDIUM 20 competitions**
- PRELUDIUM offers grants for research projects for researchers who have not yet earned a PhD degree, while OPUS offers funding for research projects carried out by scientists at all stages of research career.
- Total budget: **PLN 430 million**
- Applications are to be submitted in electronic way via the OSF system by June 15, 2021, 4.00 pm
- [www.ncn.gov.pl/aktualnosci/2021-03-15-ogloszenie-konkursow-opus-21-preludium-20?language=pl](http://www.ncn.gov.pl/aktualnosci/2021-03-15-ogloszenie-konkursow-opus-21-preludium-20?language=pl)



# Activities of the groups within the HR Excellence in Research distinction



HR EXCELLENCE IN RESEARCH

- Launching a periodic bulletin dedicated to summing up main events and various forms of activities undertaken by IFJ PAN
- Introduction of the requirement that all announcements and notices sent to IFJ PAN employees and PhD students be bilingual (in Polish and English).
- A proposal to introduce the IFJ PAN Director's Award to distinguish persons standing out in terms of research or organizational capabilities
- Initiating activities towards the recognition of mobbing, harassment, and discrimination and their possible prevention
- Conducting a survey among employees and PhD students to examine possible exposure to inappropriate behavior at IFJ PAN



# Activities of the groups within the HR Excellence in Research distinction



HR EXCELLENCE IN RESEARCH

- Cooperation on the development of an action plan for the Research Communication Team (Physicists' Couch)
- Work towards the reorganization of IFJ PAN webpages
- Scientific guiding and mentorship piloting at two departments of Division 3
- Development of a research equipment database at IFJ PAN
- Discussions towards creating of an HR and recruitment system
- Coordination of activities towards the elimination of architectural barriers for the disabled people
- Adapting a room for parents and setting up a first aid station at the main entrance guardhouse





# Awards and distinctions

- **Dr Maciej Roman** – laureate of the Ministry of Science and Higher Education scholarship competition for outstanding young scientists in the field of physical sciences, edition 2019/2020
- **Dr hab. Jacek Otwinowski, IFJ PAN professor** – winner of the outstanding scientific achievement award of the Ministry of Science and Higher Education
- **IFJ PAN a beneficiary of the STER program – Internationalization of Doctoral Schools** – systemic support package for 3 years for the Krakow School of Interdisciplinary PhD Studies
- The title of Professor in the field of physics: **prof. dr hab. Andrzej Horzela, prof. dr hab. Adam Trzupek**

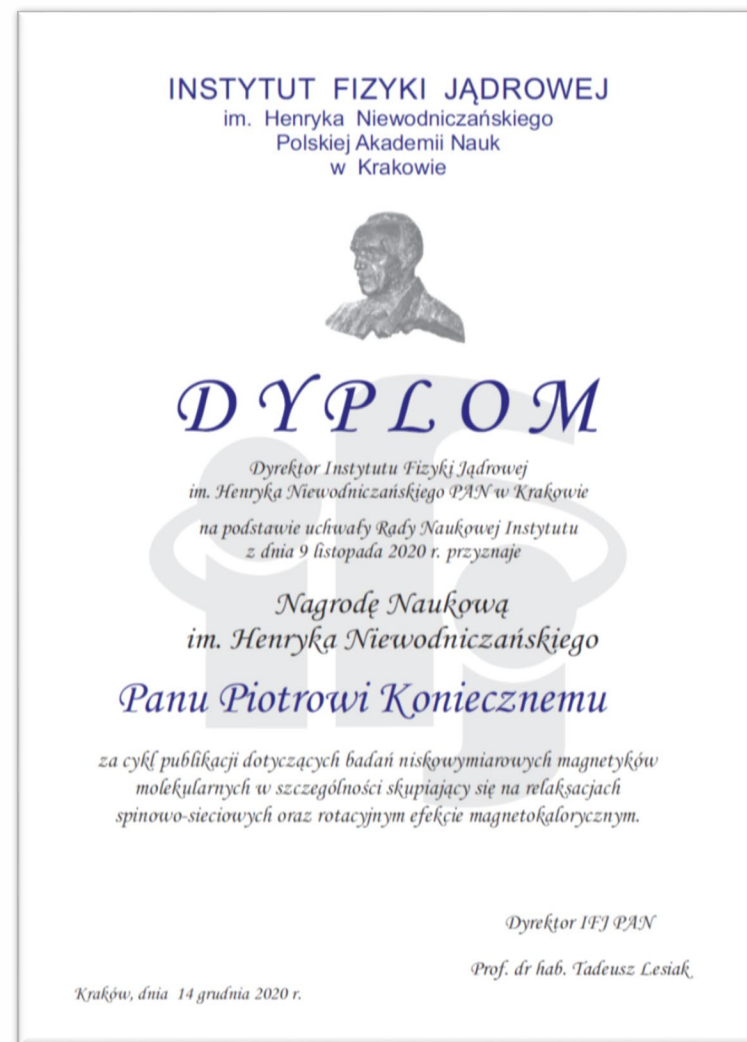


# The Henryk Niewodniczański Scientific Award

in 2020 was granted to

**dr Piotr Konieczny**

in recognition of a publication cycle  
on studies of low-dimensional  
molecular magnets with a particular  
focus on spin-lattice relaxations and  
rotating magnetocaloric effect





## IFJ PAN Director's Award for scientific and organizational activity

- The Director's Award can be granted to scientific and scientific research employees for:
  - a) **outstanding scientific achievements,**
  - b) **highly recognized organizational activity or other outstanding contributions to scientific activity at IFJ PAN.**
- The Award is granted at the initiative of IFJ PAN Director or at the request of heads of: a scientific division, Bronowice Cyclotron Centre, Division of Scientific Equipment and Infrastructure Construction
- Applications for the Award together with a justification should be submitted to IFJ PAN Director's Secretarial Office by the 15th day of the first month following the quarter of the year for which the Awards are to be granted

**1st edition – deadline for application submission – by 15 April 2021**



# Events and conferences

- **XXVII Cracow Epiphany Conference**
- **Meeting of the Mixed CNRS/IN2P3 – COPIN Committee**
- **Popularyzation of Science**



# XXVII Epiphany Conference “On future of particle physics” (January 7-10, 2021)

- This year’s edition of the conference focused on a new generation of future high energy physics experiments. The event was organized in on-line mode because of the COVID-19 pandemic.
- A number of subjects crucial for the future of particle physics were discussed at the conference, such as future experiments (among others High Luminosity LHC, Future Circular Collider, Electron-Ion Collider), Higgs boson physics, heavy flavor physics, Standard-Model Extension physics.
- The conference featured also the **Polish FCC (Future Circular Collider) day**. Its aim was to inform the Polish scientific community about the status and plans related to this project and the role of Poland in this strategic for particle physics enterprise.
- The conference gathered **189 participants, 46 papers were delivered**.
- Traditionally, the conference also included a session for young scientists at which PhD students and young postdocs could, often for the first time in their careers, present their achievements at an international forum.



## Annual Mixed CNRS/IN2P3 – COPIN Committee meeting (January 28, 2021)

- The meeting gathered: on the part of the COPIN Consortium: prof. Tadeusz Lesiak, prof. Adam Maj (Chair of the COPIN Consortium), prof. Bogdan Fornal, Krzysztof Rusek (Director of the Heavy Ion Laboratory at the University of Warsaw), Andrzej Góźdź (Maria Curie Skłodowska University) and Małgorzata Niewiara (COPIN secretary); on the part of CNRS/IN2P3: Berrie Giebels (IN2P3 Deputy Director), Laurent Vacavant (Scientific Director – particle and hadron physics), Fanny Farget (Scientific Director – nuclear physics and its applications) and Thomas Palychata (Head of IN2P3 International Office).
- The aim of the meeting was to review research conducted within the COPIN – IN2P3 collaboration in 2020 and to discuss and evaluate various collaboration projects.
- The Committee, having examined proposals of the research groups, took a decision on the allocation of funds for scientific exchange in 2021 with regard to respective projects. In total 361 and 329 man-days were allocated to Polish scientists planning a visit to France and French researchers planning a visit to Poland, respectively.



## “Physicists' Sofa”

- March 12, 2021 was the day of the premiere of the first episode of the movie-podcast entitled “Physicists’ Sofa”. The movie initiates a regular series of short films promoting physics and IFJ PAN and was produced by the members of the IFJ PAN Research Communication Team.



**The materials are available:**

**on Facebook:**

[www.facebook.com/watch/?v=287280839437268](https://www.facebook.com/watch/?v=287280839437268)

**on YouTube:**

<https://youtu.be/tSLyN33IPtI>



# "Towards the Limits of Knowledge - Nuclear Physics and Particle Physics"



**The materials are available:**

**on Facebook:** [https://fb.watch/4tCG9Lg\\_xE/](https://fb.watch/4tCG9Lg_xE/)

**on YouTube:** <https://youtu.be/0w1HLggaZ24>





# The video materials produced by IFJ PAN employees and PhD students

- The video materials produced by IFJ PAN employees and PhD students will be presented to the public on a regular basis on the institutional webpage, Facebook and YouTube. Those material were prepared for the needs of the Małopolska Researchers' Night 2020. Videos are related to the activity and history of our Institute and describe everyday life of physicists.
- The first movie in the series entitled **“Boring and difficult or still needed? Physics against cancer”**. The movie presents scientists and engineers at work “from behind the scenes” and focuses on their involvement in the process of irradiating patients and further improvement of proton beam treatment.



**The materials are available:**

**on IFJ PAN website:**

[www.ifj.edu.pl/popularyzacja/filmy-podcasty/swiat-oczami-fizyka/](http://www.ifj.edu.pl/popularyzacja/filmy-podcasty/swiat-oczami-fizyka/)

**on Facebook:**

[www.facebook.com/Instytut-Fizyki-J%C4%85drowej-PAN-400624916662319/videos/906902596791546/](https://www.facebook.com/Instytut-Fizyki-J%C4%85drowej-PAN-400624916662319/videos/906902596791546/)

**on YouTube:**

[www.youtube.com/watch?v=7qQ1bZQx8Es](https://www.youtube.com/watch?v=7qQ1bZQx8Es)



# Summary of the year 2020

- 1. Earned academic titles and degrees**
- 2. Popularization and promotion of scientific achievements**
- 3. Publications**
- 4. Status of proton therapy**



# The title of Professor earned in the field of physics in 2020

1. **Prof. dr hab. Jacek Niemiec**
2. **Prof. dr hab. Magdalena Parlińska-Wojtan**
3. **Prof. dr hab. Marta Wolny-Marszałek**



# Habilitations completed in 2020

1. Dr hab. Agnieszka Banaś
2. Dr hab. Krzysztof Banaś
3. Dr hab. Renata Kierepko
4. Dr hab. Mariusz Kłosowski
5. Dr hab. Agnieszka Łuszczak
6. Dr hab. Marta Łuszczak
7. Dr hab. Adam Matyja
8. Dr hab. Christoph Mayer
9. Dr hab. Andrzej Ptok
10. Dr hab. Olga Sikora
11. Dr hab. Jarosław Stasielak
12. Dr hab. Jan Swakoń
13. Dr hab. Magdalena Włodarska



# Doctoral degrees earned in 2020

1. Dr Sergii Antropov
2. Dr Anna Budzyńska
3. Dr Marcin Bury
4. Dr Joanna Danilkiewicz
5. Dr Karolina Danyłec
6. Dr Krzysztof Gorzkiewicz
7. Dr Szymon Guguła
8. Dr Arianna Ligorini
9. Dr Łukasz Marciniak
10. Dr Marcin Wątorek
11. Dr Noemi Zabari



## Popularization and promotion of scientific achievements in 2020

### ➤ Conferences

- XXVI Cracow Epiphany Conference on LHC Physics: Standard Model and Beyond, Krakow, January 7-10, 2020
- Joint Meeting of Polish Synchrotron Radiation Society and SOLARIS Users, on-line, September 9-11, 2020
- Open meeting of the Nuclear Physics Section of the Polish Physical Society, on-line, September 28, 2020
- 60. Jubilee Cracow School of Theoretical Physics - Panorama of Hadronic Physics, on-line, November 19-20, 2020
- Superconductivity and Particle Accelerators 2020 (SPAS'20), on-line, November 24-26, 2020

### ➤ Meetings of international projects

- COPIGAL Steering Committee, Paris, January 16, 2020
- COPIGAL Mini-Workshop, Paris, January 16-17, 2020
- Working Group Meeting and MC Meeting of the COST Action CA16201, Krakow, February 11-13, 2020
- 7th meeting of the International Advisory Committee IFJ-PAC CCB IAC, on-line, August 28, 2020
- Working Group Meeting EURADOS WG9 Dosimetry in Radiation Therapy, on-line, October 22-23, 2020

### ➤ Organization of national seminars

- Special birthday session devoted to prof. dr hab. Kacper Zalewski, Krakow, January 7, 2020
- Honorary seminar dedicated to prof. dr hab. Michał Turała entitled “Particle physics and new technologies”, Krakow, January 23, 2020



## Type and number of publications in 2020

<b>Research papers published in journals on the list of journals of the Ministry of Science and Higher Education</b>	<b>692</b>
<b>Research papers published in journals not included in the list of journals of the Ministry of Science and Higher Education</b>	<b>21</b>
<b>Research monographs (or chapters) published by journals on the list of journals of the Ministry of Science and Higher Education</b>	<b>14</b>
<b>Other papers (other conference materials, reports, popularization)</b>	<b>14</b>



## Bronowice Cyclotron Centre

- In total **146 adult patients** underwent proton therapy at the IFJ PAN Bronowice Cyclotron Centre in 2020:
  - **13** patients completed a series of irradiations at the proton eye radiotherapy facility (eye tumors),
  - **133** patients completed a series of irradiations at the therapeutic gantry facility (tumors located outside of the eye).





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**The IFJ PAN Newsletter is available at:**

[www.ifj.edu.pl/en/institute/newsletter/](http://www.ifj.edu.pl/en/institute/newsletter/)

**You are all welcome to cooperate with us and contribute to the Newsletter!**

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