Welcome to the Winger Research Centre for Physics

Informations for the new colleagues
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Arriving with public transport

From Budapest Airport

1.) With the bus 200 E go until Népliget
2.) Take the metro line M2 until Deák Square, change the metro line M3 and go until South Railway Station, terminus
3.) Take the bus 21 until Csillebérc- KFKI, terminus
Our colleagues can use two free shuttle buses from the Széll Kálmán Square and the Kosztolányi Dezső Square. The buses are white and have a table with “KFKI különjárat” sign. If somebody wants to take the buses in other stops have to sign with his hand to the driver.

Timetable:

To KFKI from Monday to Friday:

- From Széll Kálmán square: 6.20, 6.40, 6.50, 7.00, 7.30, 8.15
- From Kosztolányi square: 7.00

Other way:

- To Széll Kálmán square: Monday-Thursday: 16.05, 16.10, 17.30, Friday: 13.40, 15.15
- To Kosztolányi square: Monday-Thursday: 16.05, Friday: 15.15

In the morning between 5:30 - 8:00 colleagues can enter through the KFKI restaurant, but go out is not possible here.
Informations about the entry

Temporary and fixed entry cards:

The Group/Department Leader can ask entry card, phone number, e-mail address, keys, internet access across Administration System of the Wigner RCP.

If the entry card is lost or stolen, you must inform the security guard as soon as possible for disabled the card. If somebody wants to stay on the premise after 21 p.m. please inform the security guard by phone, and give your name, your group and the number of the building where you work.

First entry:

Entry is possible at the reception where visitors receive an entry card. For the entry ID card, a driving license, passport or student card with a photo is needed. Children under age of 14 can NOT visit the premise.

Visitors with a car have also asked an entry card at the reception if they asked permission for entry. With the car only the driver can go into the premise passengers have to get off and they can only get in after the reception. Same rule for leaving the site.
Useful contacts

Central contacts:
Central phone number: +36 1 392 2222
Address: Konkoly-Thege M. street 29-33.
Website: wigner.hu
Operator Ltd.: kfki.hu
(here find the Phone book of the premise)

Wigner RCP Secretary:
Office: 3. building. 111.room
titkarsag@wigner.hu
Phone: 1126, 2512, +36 1 392 2512
RMI Secretary: 1787
SZFI Secretary: 2768

Wigner RCP Finance Department:
Department: 3. building 2. floor
Contacts: wigner.hu/hu/gazdasagi-osztaly

Security Guard:
Reception: 1187 extension
In case of emergency (0-24):
1155 and 2432 extension
From out of the premise: +36 1 395 9120

Medical station, first aid:
1445 extension

National emergency number: 112
Administration System

Actually in the Administration System, 6 functions are available: daily work register, material procurement, holiday administration, traveling administration, registration of new accesses, reports administration. The Administration System is available from the Intranet (on the wigner.hu website).

Accesses:
The Group/Department Leaders can ask new accesses like entry card, permission for entry with car, e-mail address, internet access.

Daily work time registration:
You have to register the daily work activity on this site, the Group Leader certify at the end of every month.

Material Procurement:
Every order have to register in this system. The procurement can start only if the Group/Department Leader permits it, and the orderer receives an e-mail about it. The payment of the bills can also start if the procurement is registered in this system.

Holidays:
You can ask the permission of holidays in this system. The Group/Department Leader permits it and the system send an e-mail about it.

Document Server

Most important regulations, documents, forms are on this site. The Document Server is available on the Intranet System (on wigner.hu)
Important contacts

Secretary of the DG:

The Secretary is in the 3rd building on the 1st floor in the room 111. They can help in some administrative problems, you find here the keys to the meeting rooms, you can give in some tenders here. Secretary can give meeting times to the DG:
Phone: 2512
E-mail: titkarsag@wigner.hu

Secretary of Institute of Particle and Nuclear Physics: building 3 room 111, phone: 2512
Secretary of Institute of Solid State Physics and Optics: building 1 room 6, phone: 2768

Innovation Advisor:

Zsuzsanna TANDI – Building 6 floor 2. Phone: +36 30/955 5869 e-mail: tandi.zsuzsanna@wigner.hu
New colleagues have to organize a meeting with the Innovation Advisor. She can inform you about the intellectual property management policy of the Wigner RCP, the rules and processes of the negotiation of the subcontractors and/or tenders about private or consortium cooperation. She can help in questions about processes and rules of prepare and management of projects.

Communication Office:

Csilla DOVICSIN-PÉNTEK - Building 3, room 111, phone: +36 30/487 9869 e-mail: pentek.csilla@wigner.hu, kommunikacio@wigner.hu

The Communication Office is responsible for the mainpart of the internal and external communication of the Wigner RCP. They can help in the communication with the media, the Hungarian Academy of Sciences, and the Eötvös Loránd Research Network. They coordinates the publication of the news on the wigner.hu website and help in the publication on the mta.hu website. Communication Office can help in design some brochures and posters, organization of events and visits, in the questions about the brand of the Wigner RCP and PR materials.

Scientific Advisor:

Szilvia POTHOCZKI – Building 1, room 201, phone:+36 1 392 2222, 1469 extension e-mail: pothoczki.szilvia@wigner.hu
The Scientific Advisor help of the DG and other directors to keep contact with Eötvös Loránd Research Network, the Hungarian Academy of Sciences, other science institutes in Hungary and in other countries and with universities. She helps the researchers with the administration in scientific work and keep the connected registers up to date. She can help in some tenders, like job applications and institutional grants.
Medical Station

The medical station is in the building 5/2. The pre-employment examinations and other obligatory and screening examinations are made here.

**Doctor:**
András Iván, Dr. MATKÓ

**Assistant:**
Gabriella CSEPREGY, assistant

**Consultation hours:**
Thursday, Friday: 8:00-12:00
Monday, Wednesday, Thursday occupational health assistant is available.

**Contact:**
Mobile: +36-70/ 881-1764
Phone: 392-2580
Extension: 1445

Occupational health and safety, radiation safety

The education in OHS is obligatory for every colleague. Courses are every Wednesday by Imre KINCS in building 1 office 19/A (downstairs turn right and behind the door 19/A go down). For courses need a pre-registration, on the 2206 extension (or on these phone numbers: +36 1 392 2206, +36 70 367 7280)

Responsible for radiation safety in Wigner RCP is Imre KOVÁCS, contact: 13. bdg. 101., basement 19
Phone number: 1778
Library

**Contact:** Library is in the building 4 on the 1. floor. Phone: (36)-1-392-2222/1404  E-mail: lib@wigner.hu

**Website:** www.kfki.hu/konyvtar/

**Opening hours:**

<table>
<thead>
<tr>
<th>Monday - Thursday</th>
<th>9 - 15.45</th>
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<tbody>
<tr>
<td>Friday</td>
<td>9 - 14.30</td>
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</table>

The library was founded in 1953. The core of the current library formed the basis of the stocks of smaller department libraries which were merged to establish a unified, professional library in 1960. We are the common research library for the Wigner Research Centre for Physics and the Centre for Energy Research. We are also the home library for Physics science in Hungary. We offer Physics and Materials Science collections and also selections of Chemistry, Computer Science and Mathematics. We are limited open to the general public, however guest users are welcome.

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Computer Network Center

**Contact:** The Computer Networking Center is in the building 14.

**Website:** wigner.hu/szhk

The main tasks of the CNC are the operation and development of the local network of the KFKI Campus, operation and development of the connection of the network of the Hungarian research and higher education (NIIFHBONE), development of other systems and giving network and informational services.

The colleagues of the CNC can help in problems with e-mail addresses, internet connection, servers of the KFKI campus and websites etc.
Restaurants

**FH Gasztro:**
The bigger restaurant is in building 11.
Opening time: 11:00-14:00

**Salátabár:**
The other restaurant on the campus is in building 23.
Opening time: 7:00-14:30 (10:15 and 10:45 closed)

**Coffee and chocolate machines:**
Coffee machines are in building 1, 4 and 26 and at the reception.
Chocolate machines are in building 4 and at the reception.

Bank, Post Station

**ATM:**
There is an OTP ATM near the main entrance of the KFKI campus, outside.

**Post Station:**
Official letters can be sent on every department. Nearest Post Station is in Normafa street 1. or at Déli Railway Station, in front of the Metro Station.
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There is an OTP ATM near the main entrance of the KFKI campus, outside.

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Official letters can be sent on every department. Nearest Post Station is in Normafa street 1. or at Déli Railway Station, in front of the Metro Station.
Eugene Paul Wigner (1902-1995) Nobel-laureate physicist

He graduated in the Fasor Lutheran High School, where two determinative teachers started him in his career, László Rátz, teacher of mathematics, and Sándor Mikola, teacher of physics. At the request of his father he enrolled at the Budapest University of Technology, Faculty of Chemical Engineering, but after half a year he continued his chemical engineering studies at the Berlin Technische Hochschule. Although he studied chemistry, he was interested in physics all along. By combining the chemist and the physicist in himself, Wigner played a pioneering role in the creation of plutonium production. He calculated and designed the world’s first atomic reactor, and he also designed the first water-cooled nuclear reactors. He was the first who proposed the using of water, too, to ensure the safety of slowing down the neutrons. Now he is considered the world’s first nuclear reactor engineer.

In 1963 he received a shared Nobel Prize in Physics „for contributing to the theory of atomic nuclei and elementary particles, particularly through the discovery and application of the fundamental symmetry principles“. The HAS founded a prize in 1999, which is awarded each year for researchers, who created something lasting in the field of nuclear energy and Hungarian physics.

“If science is expected to grow so great, both in the comprehensiveness of its subject and also in depth, that the human mind will not be able to embrace it, that the life span of man will not be long enough to penetrate to its fringes in time to enlarge it, could several people not form a team and accomplish jointly what no single person can accomplish? Instead of returning with Shaw to Methuselah, can we find a new way to enlarge the capacity of human intellect by the juxtaposition of several individual intellects rather than by extending a single one?”

E.P. Wigner: The Limits of Science, 1950
The Institute for Particle- and Nuclear Physics make research in particle and nuclear physics, gravitation research, space physics, nuclear solid-state physics and material science, neurosciences and complex systems. The development activities of the institute are in laser physics, nuclear analytics, space technology, high-speed data processing, some spectroscopies, electrical, mechanical and information technology devices serving special needs, neurorehabilitation systems and different type of softvers. Their researchers work in more international projects, in some of these, they coordinate the Hungarian participation. The operation and development of more big equipment are also part of the roles of the institute, like EG-2R accelerator and the NIK heavy-ion implanter, the MBE molecule beam epitaxia, the GRID system and other high capacity computers.
The Institute for Solid State Physics and Optics make research in quantum optics, laser applications and atomic level material research. The main profile of the institute is the table-top experiments in local laboratories, theoretical research, and simulations based on modern numeric method with big calculation capacity demand. Main topics: quantum informatics, nonlinear optical spectroscopy, medical applications of lasers, production and examination of new materials, development of spectroscopic methods of material research from infrared range to X-ray radiation and free-electron lasers. The researchers of the two institutes participate in the graduate and postgraduate education near the scientific work, take more seminars, lead many diploma and doctoral thesis every year.
The structure of the Institute for Particle and Nuclear Physics

### Theoretical Physics

<table>
<thead>
<tr>
<th>Research Group</th>
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<tbody>
<tr>
<td>Particle Physics and Field Theory Research Group</td>
<td>3. building</td>
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<tr>
<td>Heavy-Ion Physics Research Group</td>
<td>3. building</td>
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<tr>
<td>Gravitational Physics Research Group</td>
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<td>Femtoscopy Research Group</td>
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<tr>
<td>Holographic Quantum Field Theory Research Group</td>
<td>3. building</td>
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<td>Quantumcalculation and informatics Research Group</td>
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### High Energy Physics

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<th>Research Group</th>
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<tr>
<td>Hadron Physics Research Group</td>
<td>2. building</td>
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<tr>
<td>HAS Momentum Innovative Research Group for Particle Detector Development</td>
<td>2. building</td>
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<tr>
<td>Standard Model and Search for New Physics Research Group</td>
<td>2. building</td>
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<tr>
<td>Laser Particle Accelerator Technologies Research Group</td>
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### Material Science by Nuclear Methods

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<th>Research Group</th>
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<tr>
<td>X-Ray Spectroscopy Research Group</td>
<td>3. building 13. building</td>
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<tr>
<td>Functional Nanostructures Research Group</td>
<td>3. building 13. building</td>
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<tr>
<td>Ion Beam Physics Research Group</td>
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### Computational Sciences

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<th>Research Group</th>
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<tr>
<td>System Level Neuroscience Research Group</td>
<td>13. building</td>
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<tr>
<td>Theoretical Neuroscience and Complex Systems Research Group</td>
<td>13. building</td>
</tr>
<tr>
<td>Rehabilitation-technology Research Group</td>
<td>14. building</td>
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<tr>
<td>Data and Compute Intensive Sciences Research Group</td>
<td>3. building</td>
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### Space Physics and Space Technology

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<th>Research Group</th>
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<td>Space Physics Research Group</td>
<td>2. building</td>
</tr>
<tr>
<td>Space Technology Research Group</td>
<td>3. building</td>
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The structure of the Institute for Solid State Physics and Optics

Theoretical Solid State Physics Research
- Strongly Correlated Systems Research Group
- Complex Systems Research Group
- Long-range Orders in Condensed Systems Research Group
- Semiconductor Nanostructures Research Group

Experimental Solid State Research
- Non-equilibrium Alloys Research Group
- Structure Research Laboratory

Complex Fluid Research
- Partially Ordered Systems Research Group
- Gas Discharge Physics Research Group
- Liquid Structure Research Group

Applied and Nonlinear Optics Research
- Laser Applications and Optical Measurement Techniques Research Group
- Femtosecond Lasers Research Group
- Ultrafast, High-intensity Light-matter Interactions Research Group
- Crystal Physics Research Group
- Nanostructures and Applied Spectroscopy Research Group

Quantum Optics and Quantum Information Research
- Quantum Optics Research Group
- Quantum Information and Foundations of Quantum Mechanics Research Group
Wigner Datacenter is a large scale investment project of the Wigner Research Centre for Physics. The Datacenter was built in 2012 with the support of the Ministry of National Development; a project fitting in with Europe’s Digital Agenda and the Digital Renewal Action Plan. Our Datacenter aims to conform to the dynamically changing needs of research and innovation by providing a cutting-edge infrastructure with exceptional energy efficiency, in an environmentally friendly way.

For the next decade the pillars of the European research-related IT infrastructure will be the high security data centres that follow a sustainable operating model. The Datacenter supports the dynamically changing needs of research and innovation through a cutting-edge infrastructure with exceptional energy efficiency, in an environmentally friendly way. The innovative implementation of the concentrated, high energy density computing and data storage capacity will serve as a reference for research IT projects in the future.
The permise

The Budai-hegység is a very important green area of Budapest. It have a diverse geology, the main mass is given by mesozoic dolomite and limestone, and on these we find sedimentary rocks. Our premise is located also on a layer build by limestone and marle.

The diverse geology cause a colorful flora and fauna. On some area we can found 20-30 protected animal and the same number of flower in 100 meter. The dominant forest in the Budai-mountains is the deciduous forset but we can see beech forests to.

Our research centre is in the green forest of Csillebérc. This area called about a fairy (Csile) from the legends of the Budai-mountains. If we walk in this beautiful landscape we can easily imagine this fairy tales.

Although we can’t meet with this imaginary creatures but we can see many interesting animal and flower.

The squirrels and birds see into the offices and labs frequently but there are many other interesting and protected insect and reptile on the premise who lives in hiding.
**KFKI sports court and camping:**

A sports court is located next to the KFKI campus. Amongst the many options offered there, you can choose to play table tennis, football and tennis there. Next to the playing-field, you can also try horse riding in Normafa Lovasiskola.

**Normafa Riding School:**  
www.facebook.com/pages/Normafa-Lovasiskola

During the summer season, visitors can create joyful memories in our sailing camp in Szántód. In wintertime, we organize skiing trips in Normafa. More info: http://szantodikemping.hu/

**Contact:**  
E-mail: uzemeltetes@kfkipark.hu  
Phone: 3020 mellék.

**Gym and suna:** The gym of the site can be found in building 4. Once you’ve entered the building, follow the corridor on your right until you reach the gym area. You will also find a sauna in front of the gym. For further information and prices, please contact the KFKI Technology Park Ltd. at uzemelteto@kfkipark.hu e-mail address.

**MTA Hotels:**

The MTA Hotels are located in two areas of Hungary: the region of Mátra and Cserhát and the Balaton region. These hotels are available for employers of the Hungarian Academy of Sciences and the former institutes of the HAS, and their relatives at a lower price, and for others at a normal price. More info (in Hungarian): udulo.mta.hu

**Sports in the 12. district (in Hungarian):** https://www.hegyvidek.hu/kikapcsolodas/sport-szabadido
Events

In the Wigner RCP we organize more events in every year. More are professionals, about these you can find infos on wigner website, the websites of the research groups, posters, and the weekly circular e-mail of the Wigner Management Board.

The other part of the events are outreach activities for families and students. Main events are the Researcher’s Night in September, the Girls Day in April for students and families, and the Octoberfest and Christmas Event for the employers of the Wigner RCP. More infos on the Wigner website and the circular mails of the Wigner Management Board.

We encourage every colleagues to join to the outreach activities as an instructor or demonstrator. We have for example a monthly outreach program, the Wigner Café in the Csopa Science Center.

More infos: Communication Office

Family

Children on the premise

Due to strict safety rules, children under the age of 14 are NOT allowed to visit the premise.

Kindergarten and Nursery of the Hungarian Academy of Sciences:

The Kindergarten and the Nursery of the HAS is located on the nicest part of Buda, on the Rózsadomb. It is a green area with really clear air and a big garden. The Kindergarten is available for the children of employers of the former Research Centres of the HAS. More info:

aob.hu
1022 Budapest, Barsi street 3.
Phone / fax: 1 326 7780
Eötvös Loránd Research Network
   elkh.org

Hungarian Academy of Sciences
   mta.hu/english

Operator Ltd. (KFKI operator)
   kfki.hu

Centre for Energy Research
   www.energia.mta.hu

Budapest Research Reactor
   www.bnc.hu

Council of the 12. district of Budapest
   www.hegyvidek.eu

Children’s railway
   www.gyermekvasut.hu

Duna-Ipoly National Park (information about our natural environment and hiking trails)
   www.dinpi.hu
Sources of the information booklet:
wigner.hu
Természet Világa - 2011 first special issue
Fizikai Szemle - 2006.01.24.
hegyvidek.eu
old.kfki.hu
dinpi.hu
GoogleMaps

Sources of the pictures:

Archive photos of the Wigner RC
old.kfki.hu - Pictures of Béla Selmeci
National Technical Information Centre and Library

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