

ICPS 2018 Helsinki, Finland, August 11th

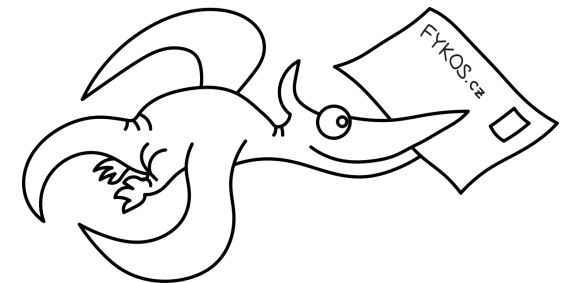
Importance of Involvement of College Students in High School Physics Education via Activities of FYKOS

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FACULTY
OF MATHEMATICS
AND PHYSICS
Charles University



Objectives of the Presentation

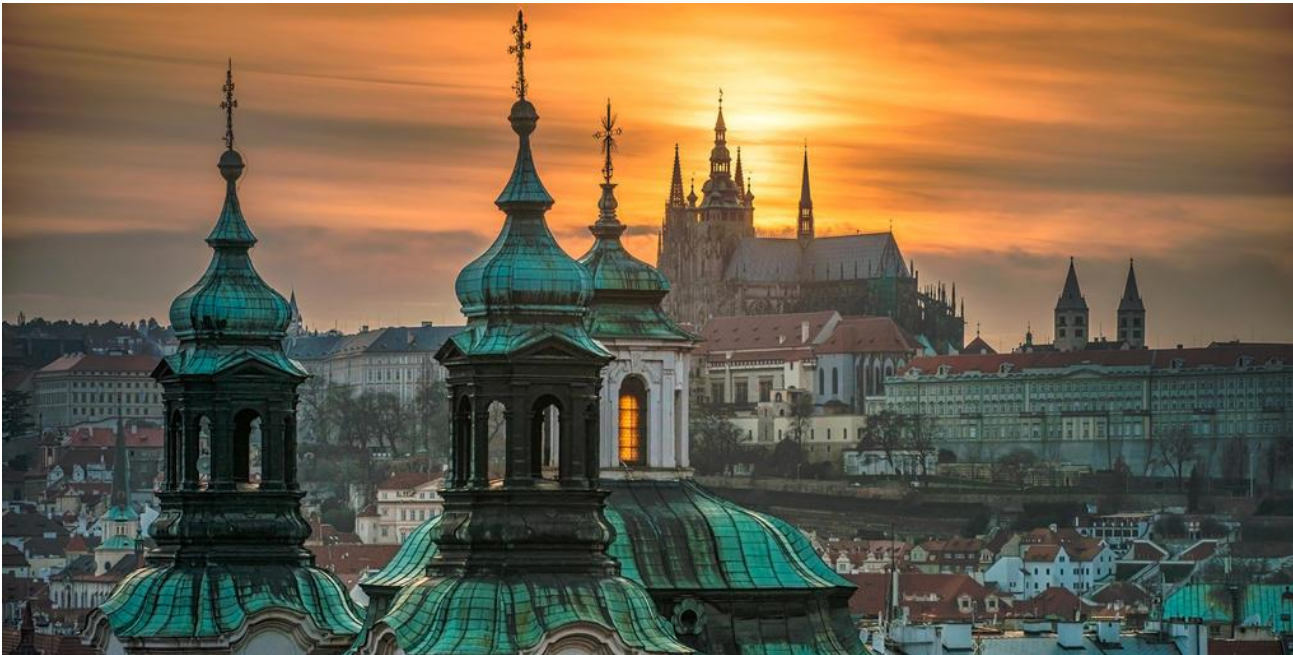
Activities of FYKOS / LC Prague

Educational benefits of the activities

How can you participate or cooperate

LC Prague & FYKOS

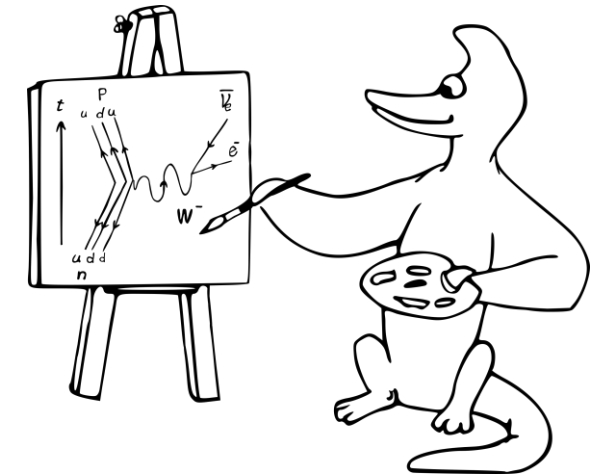
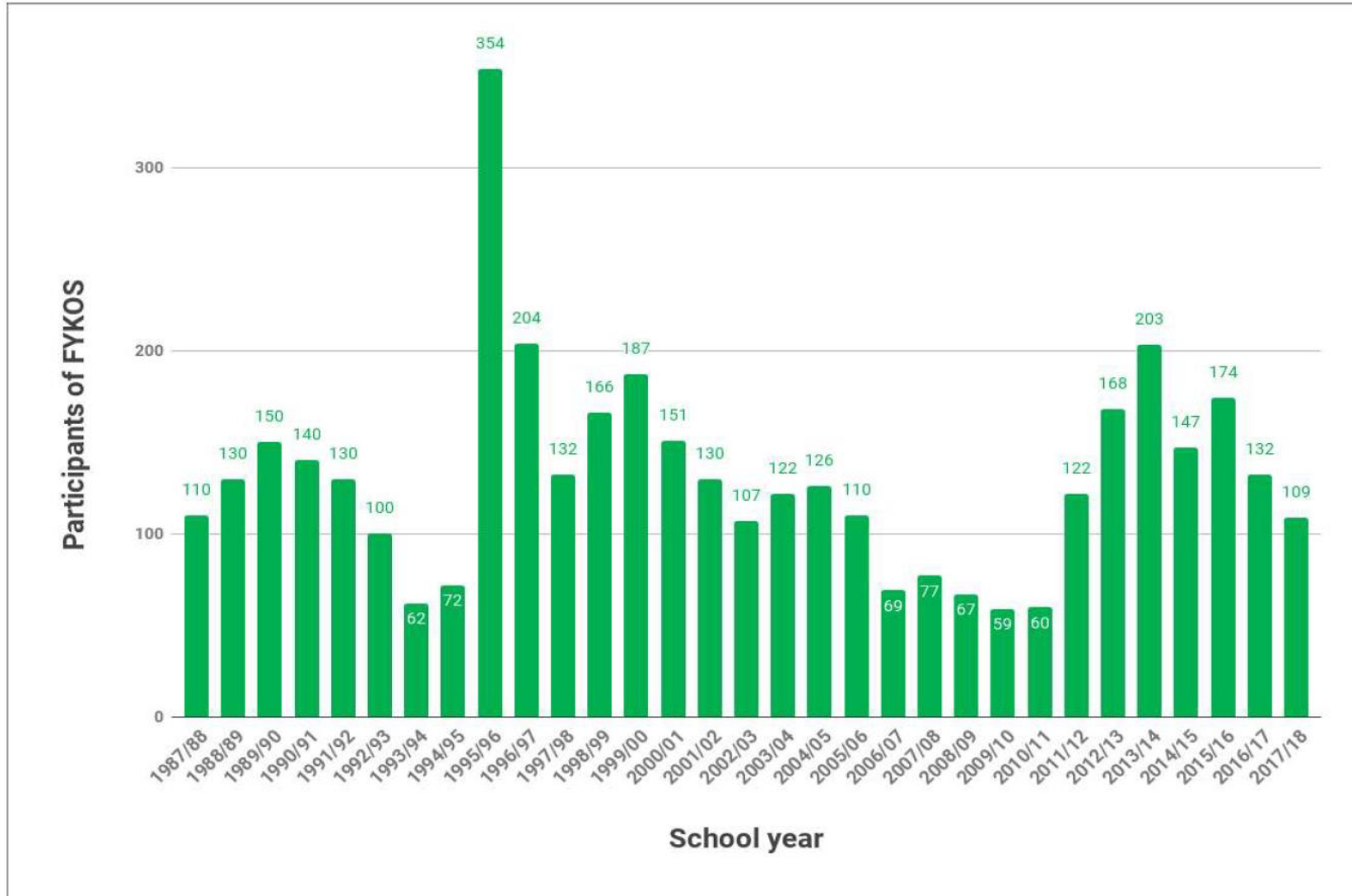
- 50 active members (representing approx. 200 students)
- Students in IAPS LC Prague = mostly organizers of FYKOS
- FYKOS = The Internet Physics Competition
literally The Physics Correspondence Seminar
- Since 1987 (32nd year is starting)



Activities of FYKOS for HS Students

- **Physics Correspondence Seminar** – core activity
- **Physics Camps** – for the best HS students
 - twice a year – March/April & September
- **Fyziklani** - HS team competition
 - next one in February 2019, Prague
- **Online Physics Brawl** - online team competition open for everyone
 - next one on November 28th, 2018
- **Week with Applied Physics** - A week-long trip for HS students
 - international scientific and technological institutions (CERN...)
- **Day with Experimental Physics** – similar to School day
 - laboratories at Charles University and scientific institutions in Prague
- **Physics Náboj** - HS team competition - cooperation with Slovak FKS
 - next one on November 16, 2018 in Czechia (Prague, Ostrava), Slovakia, Poland, Hungary, Russia

The Physics Correspondence Competition

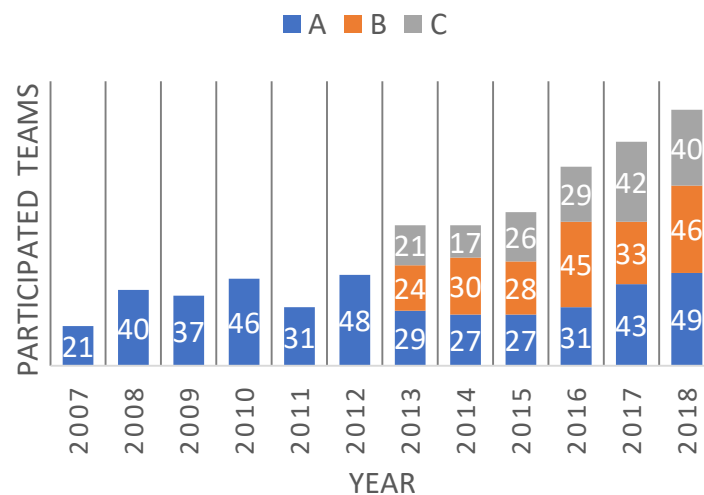


Physics Camps





Fyziklani



33 countries
Open category

Online Physics Brawl

ONLINE PHYSICS BRAWL

Have you ever heard of Online Physics Brawl?

It's the largest Czech online competition in solving physics problems, which runs all over the world, with assignment in Czech and in English.

Don't hesitate and form a team of up to five people, register and show to everyone that your team is better than the others! The competition is primarily for high school students but it has also an opened category **for anyone**.

Register until 25th Nov 2018
23:59 CET on the web:

physicsbrawl.org

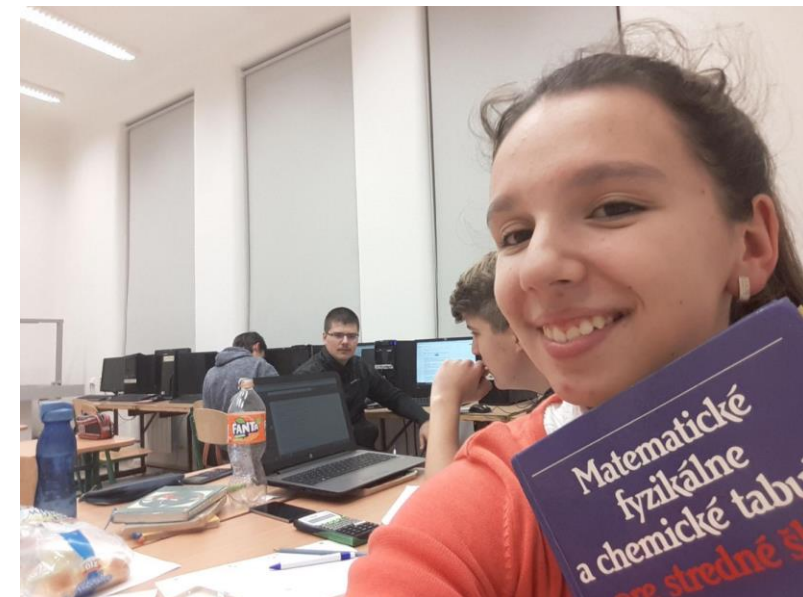
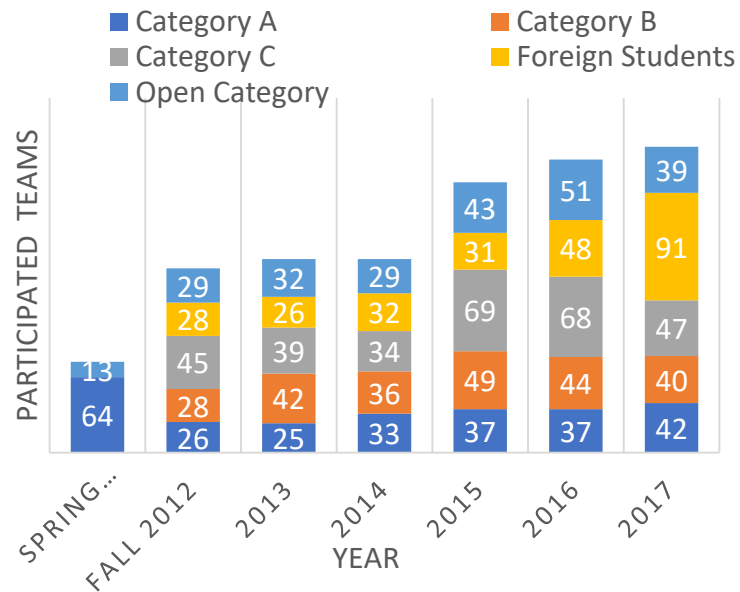
Competition takes place on:

Wed 28th Nov 2018 17:00–20:00 CET

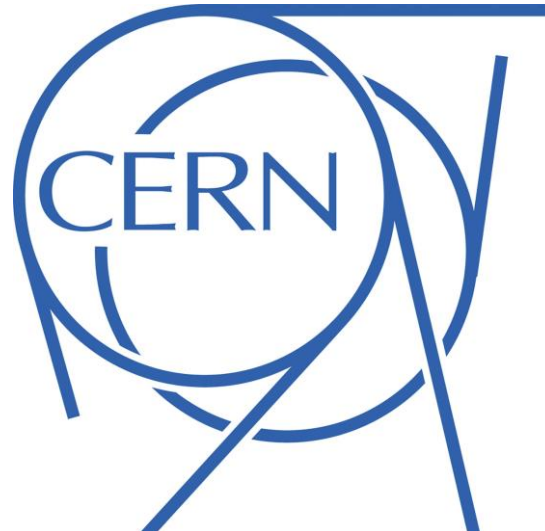
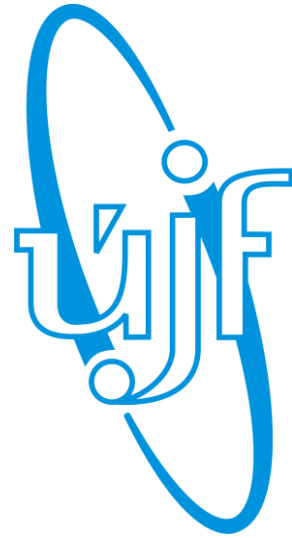
Complete information at:
online.physicsbrawl.org

Follow us on Facebook and give us your like:
www.facebook.com/FYKOS

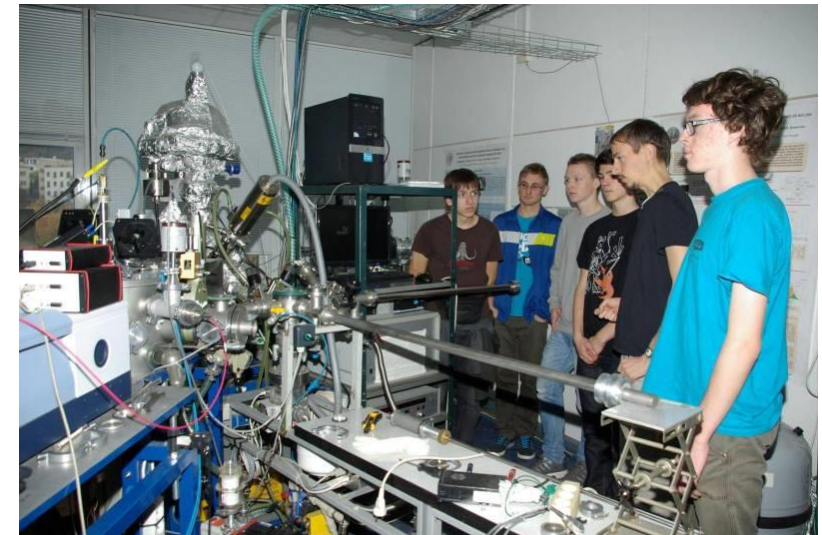
Competition is organized by FYKOS of
Faculty of Mathematics and Physics,
Charles University (Czech Republic).



Week with Applied Physics



Day with Experimental Physics



Physics Náboj



Benefits for High School Students

- Complex knowledge of HS physics
- Knowledge of university level physics
- Similar level of physics knowledge – teachers & students
- Friendly approach & community building
- Motivation for extra work & to study physics
- Social skills
- Interactive learning

Benefits for College Students

- Educating skills
- Better understanding of physics (through explaining and repeating)
- Leadership skills
- Experience of event organizing
- Outreach experience

How Can You Participate in FYKOS Activities

- **Physics Correspondence Seminar** – spread the word / create some physics problems
- **Physics Camps** – visit camps as a guest lecturer
 - twice a year – March/April & September
- **Fyziklani** – guide a team / participate as a member of jury
 - next one in February 2019, Prague
- **Online Physics Brawl** – participate as a competitor
 - next one on November 28th, 2018
- **Week with Applied Physics** – host an excursion at your university / research institute
 - international scientific and technological institutions (CERN...)
- **Day with Experimental Physics** – organize School day at your community
 - laboratories at Charles University and scientific institutions in Prague
- **Physics Náboj** – you can organize Náboj in your city
 - next one on November 16, 2018 in Czechia (Prague, Ostrava), Slovakia, Poland, Hungary, Russia

Thank you for your attention

Please, do not hesitate to contact us

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FYKOS web page

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