Czech Academy of Sciences

Cooperation with France
History

- **1784** – Royal Czech Society of Sciences covering natural sciences, history and humanities (J.E. Purkyně – Purkinje cells, vesicle, etc.)
- **1890** – The Emperor Franz Joseph Czech Academy of Sciences, Letters and Arts
- **1918** – Czech Academy of Sciences and Arts (J. Heyrovský as a Nobel Price laureate – polarography)
- **1952** – Czechoslovak Academy of Sciences (O. Wichterle – soft contact lenses)
- **1993** – Academy of Sciences of the Czech Republic (A. Holý – drugs for treatment of AIDS, cancer, hepatitis, etc.)
Research Areas

1. Mathematics, Physics and Earth Sciences
2. Life and Chemical Sciences
3. Humanities and Social Sciences
Strategy AV21
Top research in the public interest

Set of multidisciplinary and multilateral research programmes of CAS institutes and other partners.

Examples:
• The Structure of Matter and the Universe
• Mathematics and Computer Sciences
• Cells and Organisms
• Human Health
• Society and Communication
• Memory and History
• Earth and the Environment
• Sources and Use of Energy
• New Materials
• Methods and Tools of Knowledge
ELI Beamlines

Ultra-intense laser in Dolní Břežany (near Prague) in the Czech Republic implemented by the Institute of Physics.

Research objectives

- to build high-intensity facilities - laser pulses lasting 10–15 fs and power up to 10PW
- fundamental and applied research, knowledge useful in medical imaging and diagnostics, design of tools for developing and testing new materials, X-ray optics
- education, collaboration with universities, commercialization, transfer of results into practice

Preparation of research programmes

Lasers
X-ray sources driven by ultrashort laser pulses
Particle acceleration by lasers
Applications in molecular, biomedical and material sciences
Plasma and high energy density physics
Exotic physics and theory (quantum electrodynamics)
CAS and CNRS COOPERATION

- 29 June 1965, Prague - Agreement for Scientific and Technical Cooperation between the government of the French Republic and the government of the Czech Republic

- 21 January 1994, Paris - Cooperation Agreement in the research fields of nuclear physics and high energy physics between the National Institute of Nuclear and Particle Physics (IN2P3) of CNRS and CAS
  - its first amendment was signed in Prague on 23 September 1996

- 1 July 2002, Prague - Agreement for Scientific Cooperation between CNRS and CAS
  - its amendment was signed on 16 May 2011 in Prague
  - after its termination the agreement wasn’t renewed

- CAS is interested in new opportunities for cooperation with CNRS
Based on the Agreement the main research fields were set as follows:

- International Projects for Scientific Cooperation (PICS)
- European Associated Laboratories (LEA)
- European Research Networks (GDRE)
- International Joint Units (UMI)
CAS AND THE FRENCH EMBASSY COOPERATION

French Embassy Scientific Awards

- Every year the CAS helps to select the best PhD laureates, provides support when selecting venues, CAS researchers participate in committee sessions

Sounds of Science

- A science and music general public conference with three French Nobel Prize awardees as main speakers accompanied by musical performance
- First organised in June 2018, it will take place every two years
CAS AND THE FRENCH EMBASSY COOPERATION

Barrande/Vltava Cooperation
- The CAS and the French Embassy cooperate on organising workshop series on e.g. nuclear research, chemistry, biosciences, nanomaterials

OTHER COOPERATION
L'Oréal-UNESCO For Women in Science
- Aims to support and recognize accomplished women researchers
- Organised by L’Oréal, UNESCO, CAS, and the French Embassy
Thank you for your attention