



Welcome to the summer school

Luc HEBRARD : Dean of the Faculty of Physics and Engineering

on Neutrino Physics Beyond the Standard Model - 2025



Sarah Solaani



Sarah Solaani

University of Strasbourg – Academic recognition (*in activity*)

Gymnase J. Sturm (1538) -> Royal university (1631) -> ... -> Univ. of Strasbourg (2009)

5 Nobel prizes : Jean-Pierre Sauvage (2016), Martin Karplus (2013), Jules Hoffmann (2011), *Richard Schrock* (2005), Jean-Marie Lehn (1987)

2 Kavli prizes

1 Member of the French Academy

21 members of the Sciences Academy

5 members of the Letters Academy

2 Members of the Technology Academy

119 Members of the Academic Institute of France

4 Gold CNRS medals

23 Silver CNRS medals

46 Bronze CNRS medals

12 Cristal CNTS medals



University Palace (1879 – 1884)

University of Strasbourg – Statistics (24-25)

56 390 Students among whom **13 026** are foreign students (23,1 %)

3 400 Teachers/Researchers or Teachers (Permanent and Not)

2 700 Administrative, Technicians or Engineers staff

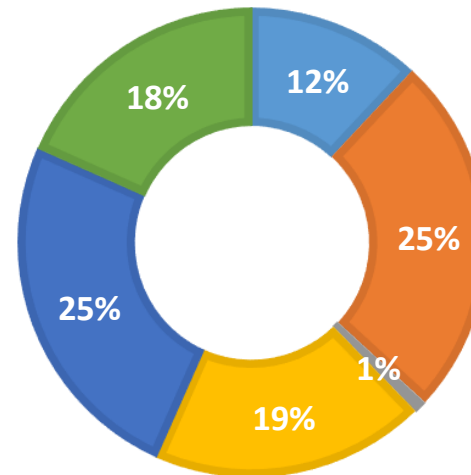
> 5 000 Part-time lecturers...

35 Teaching/Research Departments

76 : Research Laboratories, most of them associated to CNRS

Multidisciplinary -> 6 main domains

- Languages, Letters and Art
- Law, Economics and Management
- Pluridisciplinary domains
- Social and Human Sciences
- Sciences and Technology : 14073 students
- Life and Health



Faculty of Physics and Engineering (Statistics)

Students : 1242 + 213 (*double diploma*) = **1455**

- **Bachelor** : 551 + 29
- **Professional bachelor** : 131
- **Master** : 545 + 51

... among which :

- Apprentices: 283
- Programs of excellence : 133



Doctoral studies : Two associate doctoral schools – 250 PhD students



Teaching staff

- Permanent positions : 33 PR + 48 A-PR + 7 Teach.+ 2 A-Teach (Industry/Unistra)
- Non permanents : 3 to 5 A-PR + 24 PhD/Teachers
- Part-time : > 150

Service/Technal staff (adm, tech, eng.)

- 30 (14 for the global services and management, 8 for technical teaching support, and 8 for administrative teaching support)

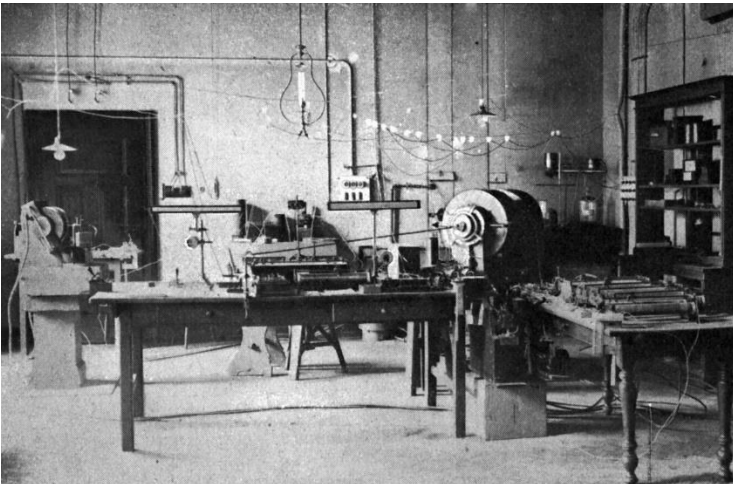
Institute of Physics (History)



- Built in **1882** by the German Empire
- Campus of the Kaiser Wilhelms Universität
- Neustadt -> UNESCO World Heritage site (**2017**)
- Teaching and research in the same location
- Foucault pendulum

Famous physicists :

- Conrad Röntgen -> Nobel prize 1901 for X ray
- Ferdinand Braun -> Nobel prize 1909 for wireless telegraphy
- Pierre Weiss -> magnetism
- Gustave Ribaud -> thermodynamics from the French science academy



Faculty of Physics and Engineering (Teaching)

Bachelor in Physics -> fundamental physics and material sciences

Bachelor in Engineering sciences -> Mechanics, electronics, industrial engineering

Professional bachelor -> Energy, Prototyping, Industrial equipment installation, Optics and vision, Nuclear technics and radioprotection

Master in physics -> Astrophysics and data sciences, Physics of quantum and soft condensed matter, Physics of radiation, instrumentation, detector, imaging, cell physics, subatomic and astroparticle physics, Quantum technologies

Master in Material sciences and engineering -> polymer science (double degree with Friburg), Design of surfaces and innovative materials, Material engineering and nanosciences, polymer engineering, material chemistry and surface functionalisation

Master in Industrial engineering

Master in Applied physics and physics engineering -> Mechanical modeling, Electronics and Microelectronics Systems, Mechatronics and Intelligent Systems

Many international relations/exchanges : with Friburg, Heildeberg, Berlin, EUCOR, UFA/DFH...

Faculty of Physics and Engineering (Facilities)

Many labs for practicals

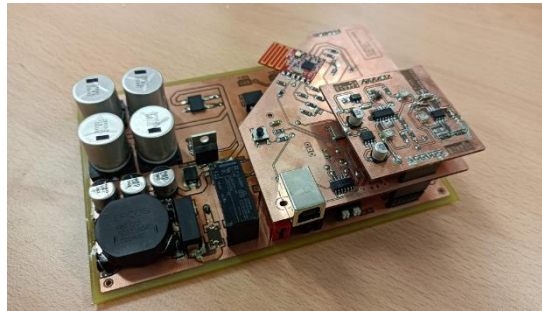
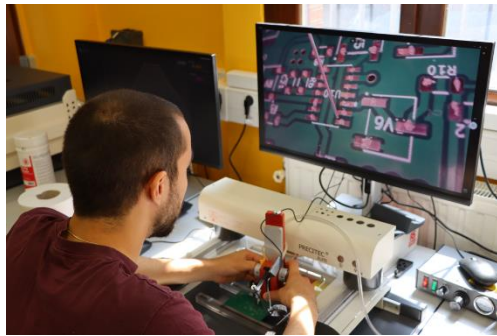
- > At least 12 lab rooms for practical works in physics (optics, thermodynamics, mechanical, electronics...) with professional equipments
- > around 160 computers for students, most of them with remote access (virtual computers)

A Technology Hall with machine tools for prototyping



Faculty of Physics and Engineering (Facilities)

A FabLab with equipments for 3D design and printing, laser cutting, electronic design (PCB with SMC up to 0402)...



... and the research laboratories

Faculty of Physics and Engineering (Research)



Institut Charles Sadron (ICS)

34 Researchers, 16 Teacher/Researchers,
44 Adm/Tech/Eng, 33 PhD students / post-doc



Institut de Physique et Chimie des Matériaux de Strasbourg (IPCMS)

40 Researchers, 39 Teacher/Researchers,
61 Adm/Tech/Eng, 53 PhD students / post-doc



Institut Pluridisciplinaire Hubert Curien (IPHC)

Dpt de Recherche subatomique

Dpt Radiobiologie, Hadronthérapie et Imagerie Moléculaire

34 R, 37 R/T, 118 A/T/E, 43 PhD / post-docs



Laboratoire des sciences de l'Ingénieur, Informatique et Imagerie (ICUBE)

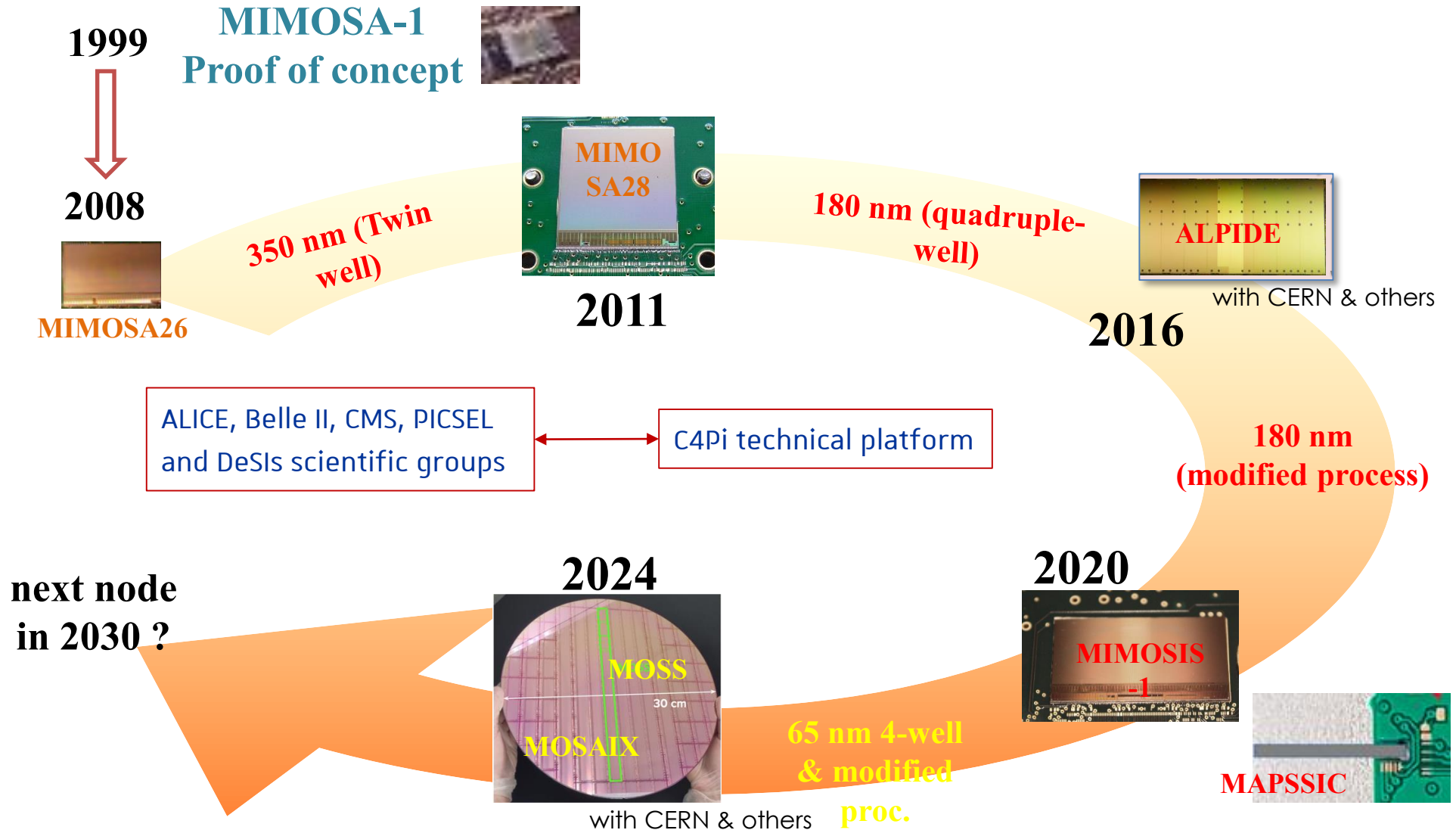
Dpt d'Electronique du Solide, Systèmes et Photonique

Dpt de Mécanique

57 T/R, 27 A/T/E, 57 PhD / post-docs

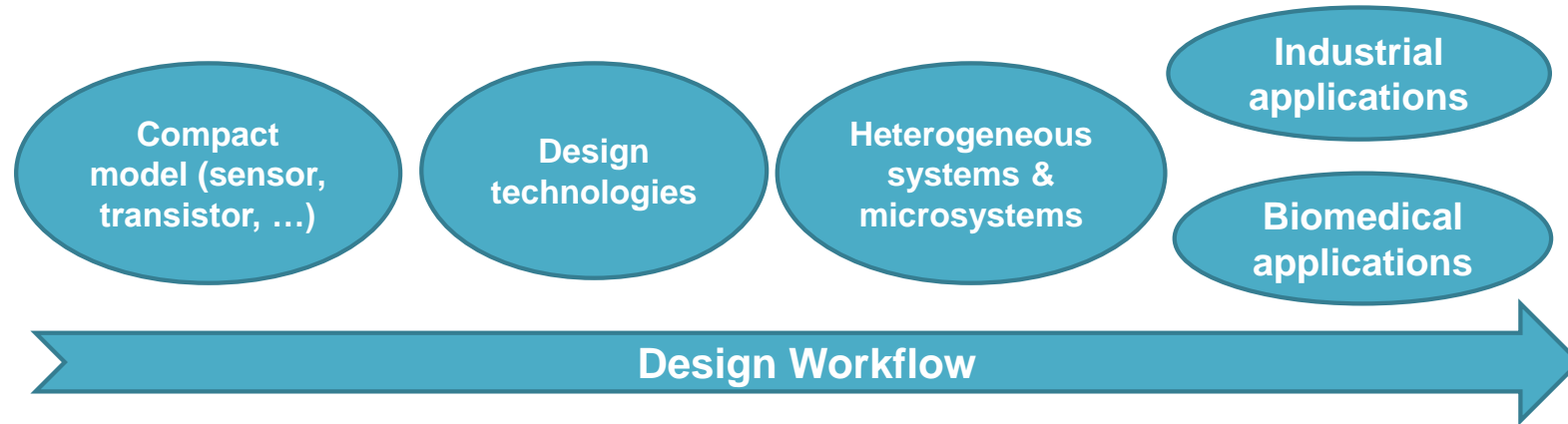
**Enjoy your stay in Strasbourg
for the Summer school**

IPHC : CMOS-MAPS technologies road map

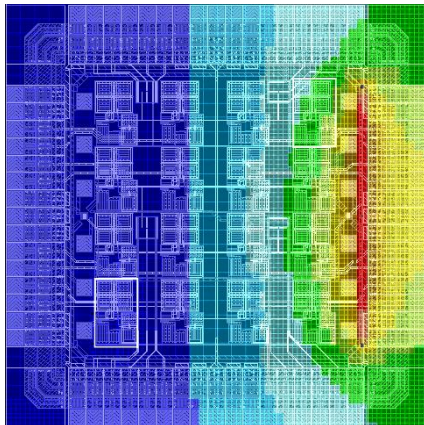


ICube : EM3 team

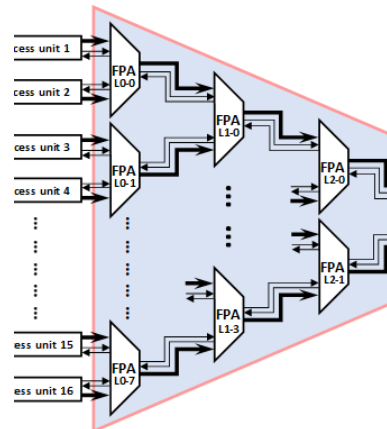
Electronics Microelectronics and Modeling of Multidomain Systems



Multiphysics modeling
of systems



Asynchronous readout



Fast imaging

