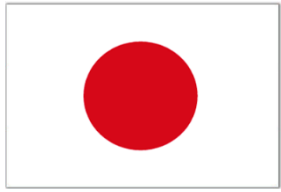
JENNIFER

EU grant n.644294

The project



Japan and Europe Network for Neutrino and Intensity Frontier Experimental Research

Moving people (and ideas) between Europe and Japan

Belle II

T2K

HyperK R&D

4 years
5 Work Packages
513 person months
More than 200 persons (researchers + technicians)
Almost 400 secondments
26 deliverables
8 milestones

JENNIFER participating institutions:

INFN (Italy) – coordinator
DESY (Germany). Including groups from Munich, Bonn, Giessen, Heidelberg
HEPHY, Vienna (Austria)
Josef Stefan Institute, Ljubljuana (Slovenia)
IFJ-PAN, Cracow (Poland)
UKP, Prague (Czeck Republic)
CNRS, Orsay (France)
METU, Ankara (Turkey)
CEA, Saclay (France)
IFAE, Barcelona (Spain)
NCBJ, Warsaw (Polan)
Queen Mary, London (UK). Including groups from Imperial College and Warwick
STFC-RAL, Oxford (UK). Including groups from Edimburgh, Lancaster, Liverpool, Sheffield
CAEN, Viareggio (Italy)

KEK, Tsukuba and Tokai (Japan)
Tokyo University, Kamioka Observatory (Japan)

The specific JENNIFER «mission»

Bridging and cross-fertilizing different communities and approaches !

Europe ⟷ **Japan**

Academia ⟷ **Industry**

Quark flavour ⟷ **Neutrino flavour**

research ⟷ **society**

Many common topics to develop together

Physics !

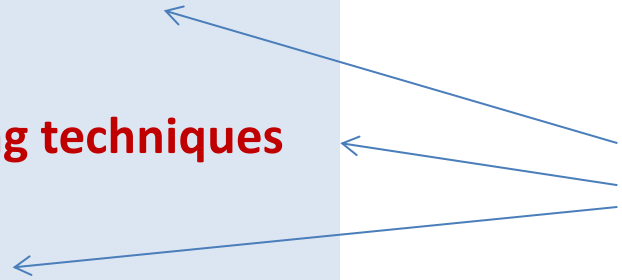
Analysis and computing techniques

Photodetectors

Data acquisition and control systems

Beam-detector interface

Outreach and Communication



See this afternoon sessions

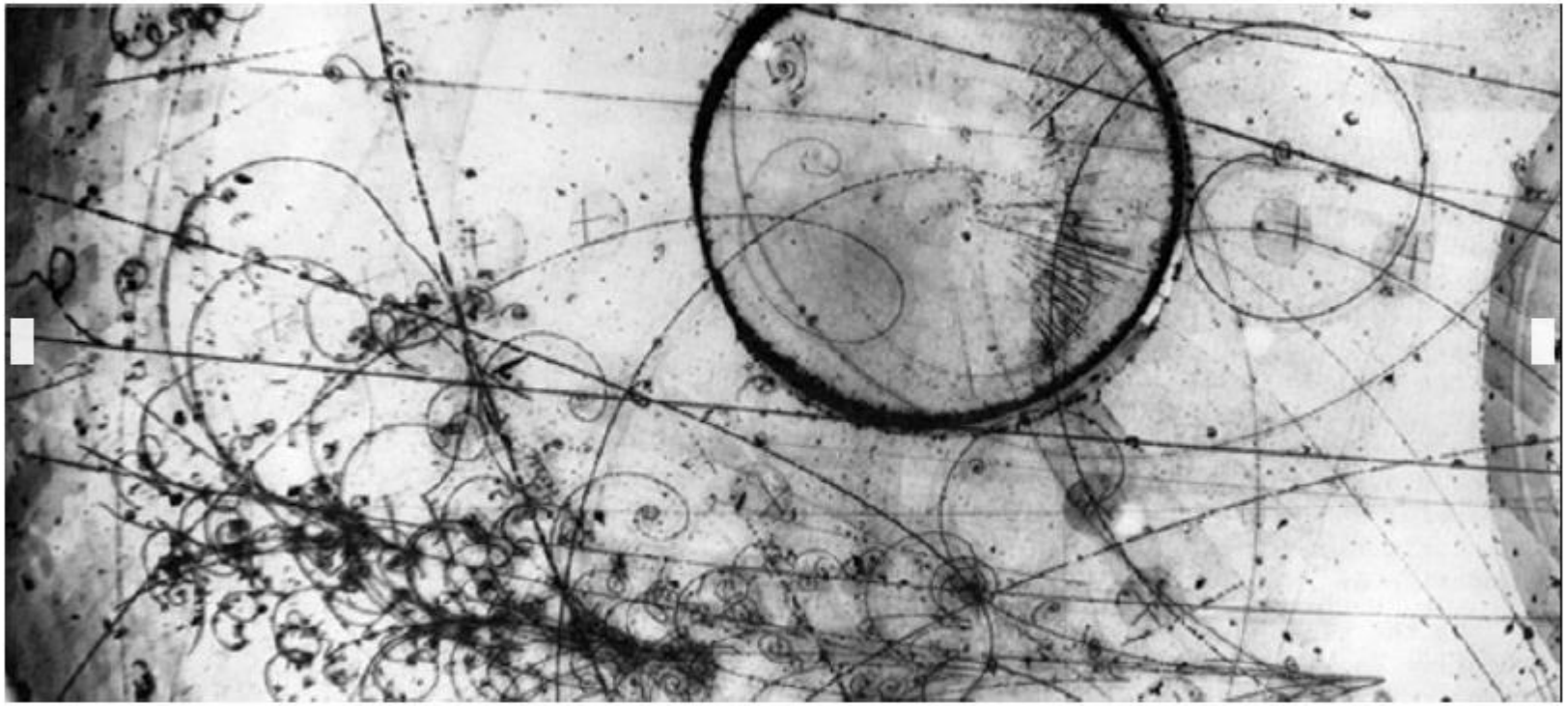
But also many technologies to be shared:

Silicon detectors, Water Cerenkov, Diamond detectors, Scintillating Crystals, Gas electron multipliers, Radiation hardness...

www.jennifer-project.eu

JENNIFER

ABOUT NEWS EVENTS DOWNLOADS CONTACT US



The JENNIFER consortium is formed by 13 academic and 1 industrial european organizations, and by 2 japanese institutions: the KEK laboratory and the Institute for

Different Outreach targets

⟹ different outreach aims !

- **General public:** aim is to report to citizens what scientists do with public money, to obtain a generalized social approval of research in particle physics. Need multiple approach:

  Conferences, exhibitions, entertainment…

- **High school students:** aim is both to give young citizens a direct and nice experience of what particle physics does, and to fascinate some of them to get new physics students !

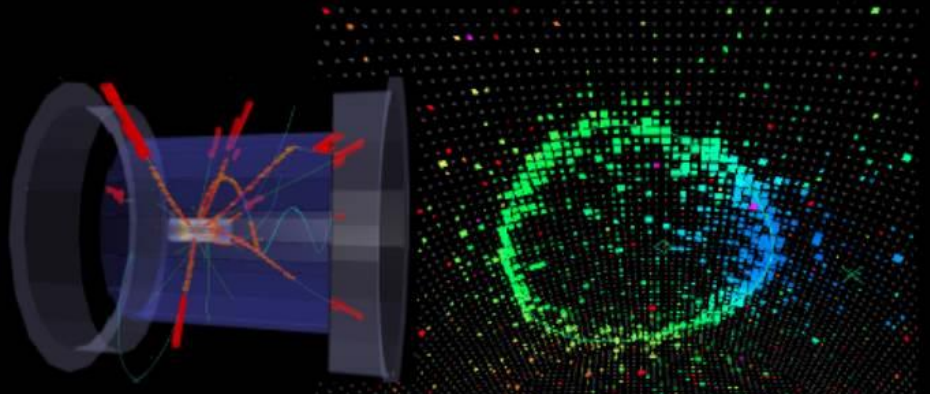
  Masterclasses program

- **University students:** aim is to push them to orient their career toward particle physics, and maybe start a thesis in our groups !

Dedicated school : first edition in 2016, second in 2018 !

JENNIFER SUMMER SCHOOL ON PARTICLE PHYSICS AND DETECTORS

Japan and Europe Network for Neutrino and Intensity Frontier Experimental Research



Mixing & Oscillation

Penguin Diagrams **Neutrino Physics** Tau Decays

CP Violation **B Meson Physics** Tetraquarks

Physics beyond the Standard Model Dark Matter

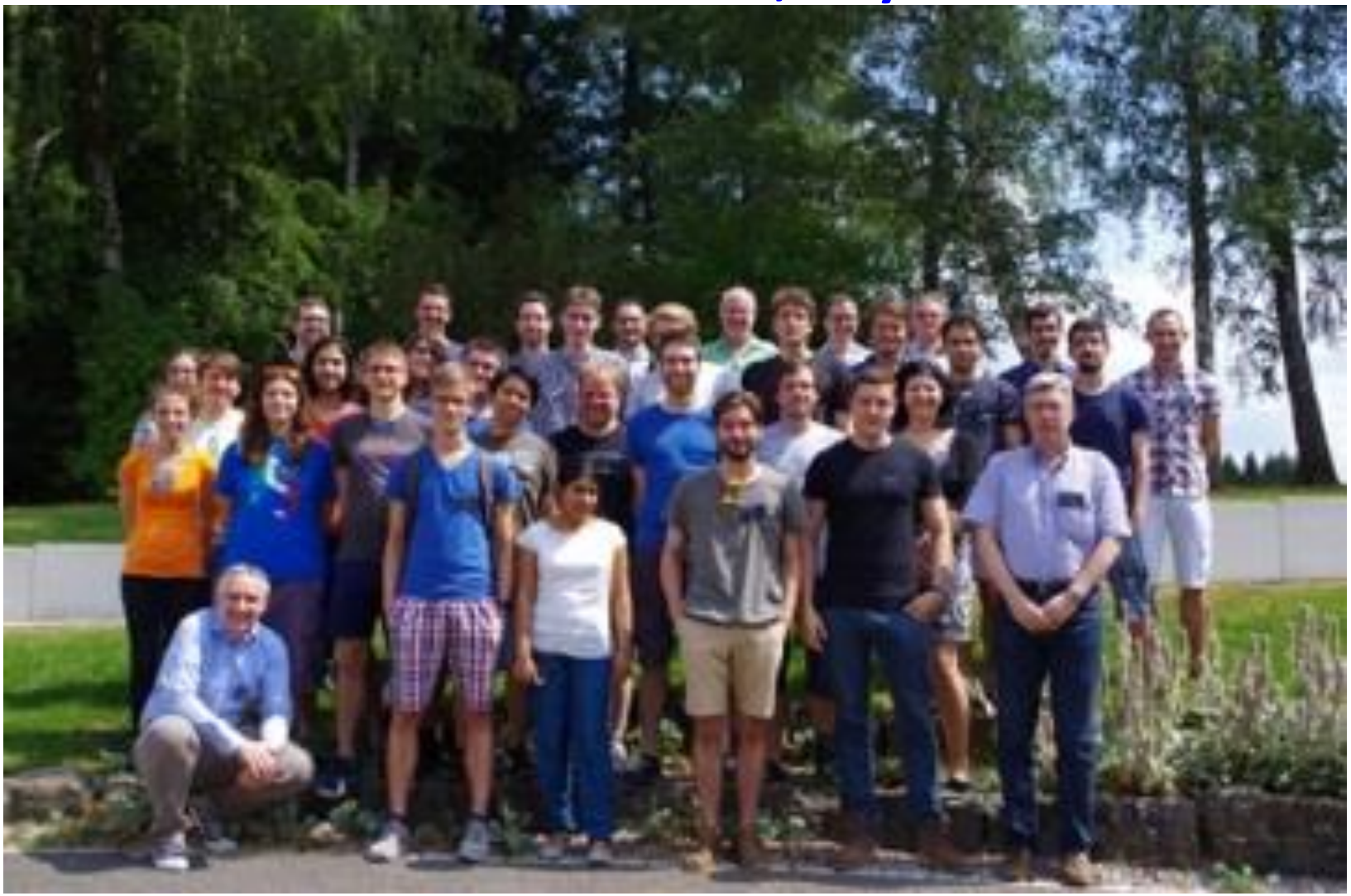
Modern Particle Detectors

An MSCA-RISE project funded by European Union under grant n.644294

July 25–29, 2016, Sporthotel Grünberg

http://belle.uni-giessen.de/jennifer_school.html

First JENNIFER school, July 2018



A success ! Lots of fun both for students and teachers!

2nd Jennifer Summer School on Particle Physics and Detectors

Japan and Europe Network for Neutrino and Intensity Frontier Experimental Research

Jul 30 – Aug 3, 2018 – Trieste

- Flavor and neutrino physics phenomenology
- Experimental techniques for flavor and neutrino physics
- Statistics for data analysis
- Advanced detector technologies

We look forward to hosting bright and motivated undergraduate students in Trieste's pleasant summer for a week of lectures in advanced topics relevant for neutrino and flavor physics

JENNIFER EC Grant 644294 Belle II T2K HYPER K ICTP International Centre for Theoretical Physics INFN

Local organization: P. Cremonesi, C. La Licata, L. Lanceri, D. Tonelli

jennifer.school@ts.infn.it


2nd Jennifer Summer School
on Particle Physics and Detectors
Japan and Europe Network for Neutrino and Intensity Frontier
Experimental Research
Jul 30 – Aug 3, 2018 – Trieste
I wish you all a fruitful and happy time in Trieste !
·Flavor and neutrino physics phenomenology
·Experimental techniques for flavor and neutrino physics
·Statistics for data analysis
·Advanced detector technologies
We look forward to hosting bright and motivated undergraduate students in Trieste's pleasant summer for a week of lectures in advanced topics relevant for neutrino and flavor physics
JENNIFER
EC Grant 644294
Belle II
T2K
HYPER
ICTP
International Centre for Theoretical Physics
INFN
Local organization: P. Cremonesi, C. La Licata, L. Lanceri, D. Tonelli