

# 2<sup>nd</sup> JENNIFER2 SUMMER SCHOOL ON PARTICLE PHYSICS AND DETECTORS

19 - 27 July 2021 virtual attendance

## SCIENTIFIC PROGRAM

Heavy flavour and neutrino physics  
Accelerator and detector physics  
Statistics and machine learning  
Hands-on sessions and virtual tours  
Optional follow-up mentorship

### Organizing committee

Z. Dolezal (Prague), T. Kobayashi (KEK), A. Passeri (INFN)  
F. Sanchez (Geneva), A. Soffer (Tel Aviv), S. Uno (KEK)

Students from any country with 3 – 4.5 years of university physics education are invited to apply at <https://indico.belle2.org/event/4071/>  
Application deadline: 31 May 2021  
Contact: [jennifer2-school@ml.post.kek.jp](mailto:jennifer2-school@ml.post.kek.jp)



G.A. 822070



The 2021 [JENNIFER2 Summer School](#) will introduce undergraduate and beginning-graduate physics students to particle-physics research performed at the [KEK](#) laboratory in Japan, focusing on the research of the [Belle II](#) and [T2K](#) collaborations. The school will take place on 19-27 July, 2021, via remote participation.

The school lectures will focus on theoretical and experimental heavy-flavour and neutrino physics, accelerator and detector physics, and statistics and machine learning. Hands-on (remote) activities will include analysis of electron-positron collision data collected by the Belle II experiment, as well as construction of a drift-chamber particle detector and analysis of its performance. Students will also participate in virtual tours of experimental facilities at KEK. Activities will take place approximately from 8:30 to 15:00 in the central European time zone.

Some of the students will also be able to participate in a more in-depth mentorship experience during the weeks or months after the school. The mentorship will involve a research or development project under the guidance of an experienced physicist from Belle II or T2K. The details of the mentorship, including dates, topics, and scope, will be jointly decided by the mentor and student in each case.

**Eligibility:** The School is intended for physics students from any country. By the start of the School, applicants must have completed at least 3 and not more than 4.5 years of full-time studies at the university level. Generally, participants will be around the end of their B.Sc.,

with some country-dependent variation. Participating undergraduate students are expected to continue to a graduate physics program. Good knowledge of English is required.

The School is organized by [JENNIFER2](#) (Japan and Europe Network for Neutrino and Intensity Frontier Experimental Research 2), a European Union Horizon 2020 research and innovation programme under the Marie Skłodowska-Curie grant agreement No. 822070, and by [KEK](#).

For more information and to apply, please go to <https://indico.belle2.org/event/4071/>.

For inquiries, please email us at [jennifer2-school@ml.post.kek.jp](mailto:jennifer2-school@ml.post.kek.jp).

JENNIFER2 Summer School Organizing Committee

Z. Dolezal (Prague)

T. Kobayashi (KEK)

R. Ota (KEK)

A. Passeri (INFN)

F. Sanchez (Geneva)

A. Soffer (Tel Aviv)

S. Uno (KEK)