

BND Graduate School 5-16 September 2022

Monday, September 5, 2022 - Friday, September 16, 2022

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Scientific Program

The scientific program of the 2020 edition of the BND School is listed in this page. The aim is to have a total of 30 lectures (3-4 per day). Special attention will be dedicated to team building activities.

Typical day structure:

9:00-10:30 - Lecture 1
Coffee Break
11:00-12:30 - Lecture 2
Lunch Break
14:00-15:30 - Lecture 3
Coffee Break
16:00-17:30 - Projects/team activities

The items listed below are the topics will be discussed during the school with an indication on the number of lectures to be expected. For details on the timetable please refer to the item "Timetable" in the indico page menu.

Quantum Field Theory

3 Lectures: The topic will be introduced at a level understandable for the broad community the school represents.

Quantum Chromo Dynamics

3 Lectures: The topic will be introduced at a level understandable for the broad community the school represents.

QFT/QCD Tutorial

Experimental tests of QCD

4 Lectures

Experiments with ultra-high cosmic rays and neutrinos

3 Lectures

BSM physics

3 Lectures

Experimental aspects of gravitational waves physics

**** 4 Lectures ****

Gravitational waves theory

6 Lectures

Machine learning applied to physics

4 Lectures

Projects and team building

By keeping the number of lectures to 3/day the students will have ample time to work on their scientific project. The projects will be assigned to groups of 3-4 students.