

# Summer School on Particle Physics



**19 - 30 June 2023**  
**An ICTP meeting**  
**Trieste, Italy**

Further information:  
<http://indico.ictp.it/event/10182/>  
[smr3848@ictp.it](mailto:smr3848@ictp.it)

The goal of the school is to give a detailed overview of particle physics from the basics of Standard Model phenomenology to the most important areas where significant progress has been achieved recently.

The school is especially targeted to PhD students in high energy physics, but qualified MSc students in their last year as well as young postdocs can also apply.

## Lecture Topics:

- Standard Model
- QCD at Colliders
- Cosmology
- Beyond the Standard Model
- Dark Matter
- Physics of Dark Sectors
- Amplitudes and EFT techniques

## Directors:

J. ELIAS MIRO, ICTP  
P. GRAHAM, Stanford University  
R. RATTAZZI, EPFL  
G. VILLADORO, ICTP

## Local Organizer:

G. VILLADORO, ICTP

## Confirmed Lecturers:

C. CHEUNG, Caltech  
T. COHEN, CERN and EPFL  
L. COVI, Goettingen University  
R. K. ELLIS, Durham University UK  
J. MARCH-RUSSELL, Oxford University  
M. SIMONOVIC, CERN  
R. SUNDRUM, Maryland University

## How to apply:

Online application:  
<http://indico.ictp.it/event/10182/>

Female scientists are encouraged to apply.

## Grants:

A limited number of grants are available to support the attendance of selected participants, with priority given to participants from developing countries. There is no registration fee.

## Deadlines:

**31 March 2023**

for applicants requesting financial and/or visa support

**26 May 2023**

for all other applicants



The Abdus Salam  
International Centre  
for Theoretical Physics  
[www.ictp.it](http://www.ictp.it)  
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