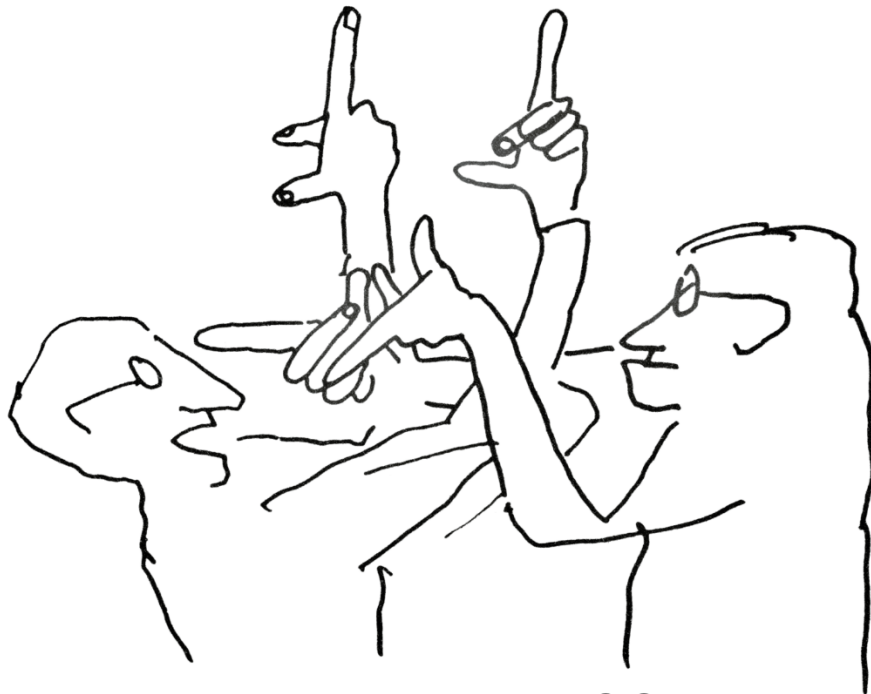




# MEMORIAL SYMPOSIUM **2021**

2-4 December, 2021



**BRUNO TOUSCHEK** 100 years



Accademia  
Nazionale  
dei Lincei



SAPIENZA  
UNIVERSITÀ DI ROMA

Ambasciata  
d'Austria  
Roma



<https://agenda.infn.it/event/27709/>

# BRUNO TOUSCHEK 100 YEARS

2-4 December, 2021

## PROGRAMME

*(allotted times include 5 minute-discussion)*

### 2 December: Dipartimento di Fisica, Sapienza

08:30-09:00 Registration and Green Pass control

#### **Morning Session 09:00-13:00**

Chair Paolo Mataloni

09:00-10:00 **Welcome**  
Direttore Dipartimento di Fisica  
Presidente INFN  
Direttore Sezione INFN Roma  
Direttore Forum Austriaco di Cultura  
Francis Touschek

10:00-10:30 **Bruno Touschek (1921-1978)**  
Luisa Bonolis, 30'

10:30-11:00 **Ada at Orsay**  
Jacques Haissinski, 30' (Zoom)

11:00-11:30 **Touschek and Statistical Mechanics**  
Giancarlo Rossi, 30'

11:30-11:50 **Coffee Break**

11:50-12:30 **The Era of Colliders**  
Carlo Rubbia, 40'

12:30-13:00 **ADONE, Asymptotic Freedom, QCD**  
Giorgio Parisi, 30'

13:00-15:00 **Shows** (posters, photos, movies) and **Lunch Break**

**Afternoon Session 15:00-18:30**

Chair Marcella Diemoz

- |             |  |
|-------------|--|
| 15:00-15:30 | <b>Standard Theory and Theoretical Physics in Roma</b><br>Luciano Maiani, 30'            |
| 15:30-16:10 | <b>Physics with LEP</b><br>Ugo Amaldi, 40' (Zoom)  |
| 16:10-16:30 | <b>Coffee Break</b>  |
| 16:30-17:00 | <b>From the hadronic string to quantum gravity...and back</b><br>Gabriele Veneziano, 30' |
| 17:00-17:30 | <b>QCD and Super Computers</b><br>Guido Martinelli, 30'                                  |
| 17:30-18:30 | <b>Recollections and Discussion</b>  |

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## December: Laboratori Nazionali di Frascati

09:00-09:45 Registration and Green Pass control

### Morning Session 09:45 -11:30

Chair Giulia Pancheri

09:45-10:00

#### Welcome

Direttore INFN - LNF

10:00-10:30

#### Physics at Frascati with Ada and Adone

Mario Greco, 30'

10:30-11:00

#### Accelerators at LNF. From Ada to Eupraxia

Andrea Ghigo, 30'

11:00-11:30

#### Accelerator Physics at Orsay

Achille Stocchi, 30'

11:30-12:00

#### Coffee break

### Morning Session 12:00 -13:20

Chair Pierluigi Campana

12:00-12:40

#### High gradient acceleration

Ralph Assmann, 40'

12:40-13:20

#### Technical challenges for the future colliders

Lucio Rossi, 40'

13:20-14:45

#### Lunch break (LNF canteen, starting 13:30)

### Afternoon session 14:45-16:30

Chair Alessandro Gallo

14:45-15:25

#### Muon collider

Daniel Schulte, 40' (Zoom)

15:25-16:05

#### High brilliance synchrotron radiation machines

Pantaleo Raimondi, 40'

16:05-17:00

#### Naming Ceremony of the LNF Visitor Center

with Francis Touschek, 20'

17:00-17:45

#### Visitor Centre guided tours

17:45-18:00

#### Public audience reception

18:00-19:00

#### Public Event, Antonio Zoccoli, Presidente INFN

## 4 December: Accademia Nazionale dei Lincei, Roma

09:00-09:30 Registration and Green Pass control

### Morning Session 09:30-12:30

Chair Giovanni Gallavotti

09:30-10:10

#### Welcome

President of Accademia dei Lincei

Vice President of Accademia dei Lincei

Francis Touschek

10:10-10:40

#### Bruno Touschek (1921-1978)

Giulia Pancheri, 30'

10:40-11:10

#### The Making of Adone

Claudio Pellegrini, 30' (Zoom)

11:10-11:30

#### Coffee Break

11:30-12:00

#### Spontaneous Symmetry Breaking in Particle Physics

Giovanni Jona-Lasinio, 30'

12:00-12:30

#### String Theory

Paolo Di Vecchia, 30' (Zoom)

12:30-14:00

Shows (posters, photos, movies) and Lunch Break (catering)

### Afternoon Session 14:00-18:50

Chair Giovanni Jona-Lasinio

14:00-14:40

#### Multimessenger Astronomy

Marica Branchesi, 40'

14:40-15:10

#### Knowledge and Technology Transfer from HEP

Manuela Cirilli, 30'

15:10-15:30

#### Coffee Break

### The Future of High Energy Physics 15:30-18:30

15:30-16:10

#### High Energy Physics and the European Strategy

Gian Giudice, 40'

16:10-16:50

#### Circular Collider in China

Yifang Wang, 40' (Zoom)

16:50-17:30

#### High Energy Linear Colliders

Steinar Stapnes, 40'

- 17:30-18:10     **High Energy Neutrinos**  
Sergio Bertolucci, 40'
- 18:10-18:30     **Discussion, 20'**
- 18:30-18:50     **Recollections and Concluding Remarks by Luciano Maiani**