



## PROGRAMME

### International Symposium

## 60 YEARS OF SUBNUCLEAR PHYSICS IN BOLOGNA

*Accademia delle Scienze dell'Istituto di Bologna – Sala Ulisse  
Via Zamboni 31, Bologna, Italy*

*7 November 2018*

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**MORNING SESSION 9.00-13.00**

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### OPENING ADDRESSES

**Walter TEGA** – President, Bologna Academy of Sciences

**Francesco UBERTINI** – Rector, University of Bologna

**Luisa CIFARELLI** – President, Italian Physical Society

### LECTURES

*Chair:* **Fernando FERRONI** – President, INFN

#### 09.30-10.15 Opening Lecture

“Ferretti, Puppi and the discovery which opened up new horizons in subnuclear physics”

**Antonino ZICHICHI (University of Bologna)** – President, World Federation of Scientists

#### 10.15-11.00

“The history of the INFN Unit of Bologna at the Physics Department of the University”

**Graziano BRUNI (INFN)** – Director, INFN Unit of Bologna

#### — BREAK (11.00-11.30)

*Chair:* **Enzo IAROCCI** – University of Roma La Sapienza, INFN and Centro Fermi

#### 11.30-11.50

“The search for heavy leptons from CERN to Frascati”

**Federico PALMONARI (University of Bologna)**

#### 11.50-12.10

“The LAA Project”

**Horst WENNINGER (CERN)**

#### 12.10-12.30

“The ELOISATRON Project”

**William BARLETTA (Massachusetts Institute of Technology – MIT)**

**12.30-12.50**

"The effective energy in QCD"

**Francesco NOFERINI (INFN Bologna)**

— **BREAK (12.50-14.00)**

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**AFTERNOON SESSION 14.00-18.30**

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**LECTURES**

*Chair:* **Sergio BERTOLUCCI** – University of Bologna

**14.00-14.20**

"Advanced time-of-flight detectors and ALICE at LHC"

**Gilda SCIOLI (University of Bologna)**

**14.20-14.40**

"AMS to search for antimatter in space"

**Andrea CONTIN (University of Bologna)**

**14.40-15.00**

"From LVD to DarkSide at Gran Sasso"

**Eugenio SCAPPARONE (INFN Bologna)**

**15.00-15.20**

"The EEE – Extreme Energy Events Project"

**Rosario NANIA (INFN Bologna) – Strategic Projects Coordinator, Centro Fermi**

— **BREAK (15.20-15.50)**

*Chair:* **Rita CASADIO** – University of Bologna

President, Class of Physical Sciences, Bologna Academy of Sciences

**15.50-16.10**

"The Erice International School of Subnuclear Physics"

**Pierre DARRIULAT (Vietnam Academy of Science and Technology)**

**16.10-16.30**

"Thirty years of Erice lectures on the brane"

**Michael J. DUFF (IQSE and Hagler Institute, Texas A&M University)**

**16.30-17.15**

"Is science in a crisis?"

**Gerard 'T HOOFT (University of Utrecht)**

**17.15-18.00 Closing Lecture**

"The future of our science – From the evolution of the electron to the evolution of the Universe"

**Antonino ZICHICHI (University of Bologna)**

**CLOSING CEREMONY**

*Chair:* **Walter TEGA** – University of Bologna

President, Bologna Academy of Sciences

**18.00-18.30 AWARD CEREMONY**

**Decoration and diploma to G. 'T HOOFT as Foreign Member of the Academy**