



ETTORE MAJORANA FOUNDATION AND CENTRE FOR SCIENTIFIC CULTURE

TO PAY A PERMANENT TRIBUTE TO ARCHIMEDES AND GALILEO GALILEI, FOUNDERS OF MODERN SCIENCE
AND TO ENRICO FERMI, THE "ITALIAN NAVIGATOR", FATHER OF THE WEAK FORCES



INTERNATIONAL SCHOOL OF SUBNUCLEAR PHYSICS 2018

Director of the School: A. ZICHICHI

INTERNATIONAL SCHOOL OF SUBNUCLEAR PHYSICS

56th Course: FROM GRAVITATIONAL WAVES TO QED, QFD AND QCD

Erice, 14 June – 23 June 2018

CO-DIRECTORS of the Course: G. 't HOOFT - A. ZICHICHI

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- A. ZICHICHI, Opening Remarks [\[lecture1\]](#), The Evolution of the Universe

Presentations, by New Talents (37)

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- L. ASTRAKHANTCEV, 2 dimensional Hawking radiation for massive scalar field theory [\[pdf\]](#)
- F. BASCONE, Quantum heating as an alternative of reheating: strong quantum corrections to particle creation and cosmological implications [\[pdf\]](#)
- L. BELOKUROVA, Long-Range rapidity correlations in the model with the string fusion on trasverse lattice [\[pdf\]](#)
- A.T. BORLAKOV, On the renormalization in Maximally Supersymmetric Gauge Theory [\[pdf\]](#)
- D. BOZKURT, Pentagon identities arising in supersymmetric gauge theory computations [\[pdf\]](#)
- O.V. BURLAYENKO, Stability of the Nuclear Burning Way Mode [\[pdf\]](#)
- D. DONMEZ, Topological invariant for the Solvable Models [\[pdf\]](#)
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- E. IEVLEV, Non-abelian Strings in $N=1$ Supersymmetric QCD [\[pdf\]](#)
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- J. JIMENEZ, Lepton-rich cold QCD matter in protoneutron stars [\[pdf\]](#)
- S. KAMIOKA, The OVAL experiment: Search for vacuum magnetic birefringence with pulsed magnet and high-finesse Fabry-Pérot cavity [\[pdf\]](#)
- M. KHABAROV, Infinite (continuous) Spin Fields in the Frame-Like Formalism [\[pdf\]](#)
- L. KOLUPAEVA, Latest neutrino oscillation results from the NOvA experiment [\[pdf\]](#)
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- V. KUTZNER, Search for disappearing tracks at $\sqrt{s} = 13$ TeV with CMS [\[pdf\]](#)
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