

Fundamental Physics in Space and Related Topics

Report of Contributions

Contribution ID: 1

Type: **not specified**

New results on the expansion of the Universe

Wednesday, 5 April 2000 09:15 (15 minutes)

Author: G.A. TAMMANN

Presenter: G.A. TAMMANN

Session Classification: Cosmology

Contribution ID: 2

Type: **not specified**

Vacuum Energy: cosmological constant or quintessence

Wednesday, 5 April 2000 09:30 (15 minutes)

Author: S. BLUDMAN

Presenter: S. BLUDMAN

Session Classification: Cosmology

Contribution ID: 3

Type: **not specified**

Gravitational lensing of and by galaxies

Wednesday, 5 April 2000 09:45 (30 minutes)

Author: P. SCHNEIDER

Presenter: P. SCHNEIDER

Session Classification: Cosmology

Contribution ID: 4

Type: **not specified**

The first quasars and galaxies

Wednesday, 5 April 2000 10:15 (15 minutes)

Author: P. SHAVER

Presenter: P. SHAVER

Session Classification: Cosmology

Contribution ID: 5

Type: **not specified**

Galaxy formation - what to expect from NGST

Wednesday, 5 April 2000 11:00 (30 minutes)

Author: C. FRENK

Presenter: C. FRENK

Session Classification: Cosmology

Contribution ID: 6

Type: **not specified**

FIRST and the NGST: studying the young Universe

Wednesday, 5 April 2000 11:30 (30 minutes)

Author: R. GENZEL

Presenter: R. GENZEL

Session Classification: Cosmology

Contribution ID: 7

Type: **not specified**

The Planck project in a world perspective

Wednesday, 5 April 2000 12:00 (15 minutes)

Author: J.-L. PUGET

Presenter: J.-L. PUGET

Session Classification: Cosmology

Contribution ID: 8

Type: **not specified**

Testing post-Newtonian gravity in the solar system and beyond

Wednesday, 5 April 2000 14:00 (30 minutes)

Author: C.M. WILL

Presenter: C.M. WILL

Session Classification: Gravitation I

Contribution ID: 9

Type: **not specified**

String theory, gravity and the equivalence principle

Wednesday, 5 April 2000 14:30 (30 minutes)

Author: T. DAMOUR

Presenter: T. DAMOUR

Session Classification: Gravitation I

Contribution ID: **10**

Type: **not specified**

The gravity probe B relativity mission

Wednesday, 5 April 2000 15:00 (30 minutes)

Author: C.W.F. EVERITT

Presenter: C.W.F. EVERITT

Session Classification: Gravitation I

Contribution ID: **11**

Type: **not specified**

MICROSCOPE

Wednesday, 5 April 2000 15:30 (30 minutes)

Author: P. TOUBOUL

Presenter: P. TOUBOUL

Session Classification: Gravitation I

Contribution ID: 12

Type: **not specified**

The NASA/ESA collaborative STEP project

Wednesday, 5 April 2000 16:00 (30 minutes)

Author: N. LOCKERBIE

Presenter: N. LOCKERBIE

Session Classification: Gravitation I

Contribution ID: **13**

Type: **not specified**

Other future space missions in fundamental physics

Wednesday, 5 April 2000 16:30 (15 minutes)

Author: A.M. CRUISE

Presenter: A.M. CRUISE

Session Classification: Gravitation I

Contribution ID: **14**

Type: **not specified**

Time projection chambers

Wednesday, 5 April 2000 14:00 (30 minutes)

Author: P. MATO VILA

Presenter: P. MATO VILA

Session Classification: Instrumentation I

Contribution ID: 15

Type: **not specified**

Silicon detectors

Wednesday, 5 April 2000 14:30 (30 minutes)

Author: M. MANNELLI

Presenter: M. MANNELLI

Session Classification: Instrumentation I

Contribution ID: **16**

Type: **not specified**

Radiation hardened electronics

Wednesday, 5 April 2000 15:00 (30 minutes)

Author: P. JARRON

Presenter: P. JARRON

Session Classification: Instrumentation I

Contribution ID: 17

Type: **not specified**

Bolometers

Wednesday, 5 April 2000 15:30 (30 minutes)

Author: E. FIORINI

Presenter: E. FIORINI

Session Classification: Instrumentation I

Contribution ID: **18**

Type: **not specified**

Photomultipliers for astronomy neutrinos

Wednesday, 5 April 2000 16:00 (30 minutes)

Author: J. CARR

Presenter: J. CARR

Session Classification: Instrumentation I

Contribution ID: **19**

Type: **not specified**

The data acquisition and data handling challenge

Wednesday, 5 April 2000 16:30 (30 minutes)

Author: J. KNOBLOCH

Presenter: J. KNOBLOCH

Session Classification: Instrumentation I

Contribution ID: 20

Type: **not specified**

Conceptional design of the superconducting magnet for AMS

Wednesday, 5 April 2000 17:00 (15 minutes)

Author: H. HOFER

Presenter: H. HOFER

Session Classification: Instrumentation I

Contribution ID: **21**

Type: **not specified**

Gamma ray bursts

Thursday, 6 April 2000 09:00 (30 minutes)

Author: M. VIETRI

Presenter: M. VIETRI

Session Classification: Astroparticle Physics I

Contribution ID: 22

Type: **not specified**

X- and gamma-ray astronomy from space

Thursday, 6 April 2000 09:30 (30 minutes)

Author: TH. COURVOISIER

Presenter: TH. COURVOISIER

Session Classification: Astroparticle Physics I

Contribution ID: 23

Type: **not specified**

Very-high gamma-ray astronomy

Thursday, 6 April 2000 10:00 (30 minutes)

Author: E. LORENZ

Presenter: E. LORENZ

Session Classification: Astroparticle Physics I

Contribution ID: 24

Type: **not specified**

Ultra-high energy cosmic rays

Thursday, 6 April 2000 10:30 (30 minutes)

Author: M. BORATAV

Presenter: M. BORATAV

Session Classification: Astroparticle Physics I

Contribution ID: 25

Type: **not specified**

High-energy neutrino astronomy

Thursday, 6 April 2000 11:00 (30 minutes)

Author: L. SULAK

Presenter: L. SULAK

Session Classification: Astroparticle Physics I

Contribution ID: 26

Type: **not specified**

Neutrinos and origin of ultra-high-energy cosmic rays

Thursday, 6 April 2000 11:30 (15 minutes)

Author: A. KUSENKO

Presenter: A. KUSENKO

Session Classification: Astroparticle Physics I

Contribution ID: 27

Type: **not specified**

Drag free satellite technology

Thursday, 6 April 2000 09:00 (30 minutes)

Author: Y. JAFRY

Presenter: Y. JAFRY

Session Classification: Instrumentation II

Contribution ID: 28

Type: **not specified**

Inertial sensor development for fundamental physics missions

Thursday, 6 April 2000 09:30 (1 hour)

Author: S. VITALE

Presenter: S. VITALE

Session Classification: Instrumentation II

Contribution ID: 29

Type: **not specified**

Applications of cryogenic detectors

Thursday, 6 April 2000 10:30 (30 minutes)

Author: A. PEACOCK

Presenter: A. PEACOCK

Session Classification: Instrumentation II

Contribution ID: **30**

Type: **not specified**

The ACES project for the ISS

Thursday, 6 April 2000 11:00 (30 minutes)

Author: C. SALOMON

Presenter: C. SALOMON

Session Classification: Instrumentation II

Contribution ID: 31

Type: **not specified**

Novel X-ray cameras for XEUS and other future space missions

Thursday, 6 April 2000 11:30 (30 minutes)

Author: L. STRUEDER

Presenter: L. STRUEDER

Session Classification: Instrumentation II

Contribution ID: 32

Type: **not specified**

The GEANT4 tool kit: space applications of an HEP development

Thursday, 6 April 2000 12:00 (15 minutes)

Author: E. DALY

Presenter: E. DALY

Session Classification: Instrumentation II

Contribution ID: 33

Type: **not specified**

Sources of gravitational waves

Thursday, 6 April 2000 14:00 (30 minutes)

Author: B. SCHUTZ

Presenter: B. SCHUTZ

Session Classification: Gravitation II

Contribution ID: **34**

Type: **not specified**

Bar detectors for the detection of gravitational waves

Thursday, 6 April 2000 14:30 (30 minutes)

Author: M. CERDONIO

Presenter: M. CERDONIO

Session Classification: Gravitation II

Contribution ID: 35

Type: **not specified**

The LIGO, VIRGO, GEO 600 and TAMA ground-based interferometers

Thursday, 6 April 2000 15:00 (30 minutes)

Author: A. BRILLET

Presenter: A. BRILLET

Session Classification: Gravitation II

Contribution ID: 36

Type: **not specified**

The ESA/NASA collaborative LISA cornerstone mission

Thursday, 6 April 2000 15:30 (30 minutes)

Author: K. DANZMANN

Presenter: K. DANZMANN

Session Classification: Gravitation II

Contribution ID: 37

Type: **not specified**

LISA spacecraft and mission design

Thursday, 6 April 2000 16:00 (30 minutes)

Author: M. SANDFORD

Presenter: M. SANDFORD

Session Classification: Gravitation II

Contribution ID: **38**

Type: **not specified**

The LISA technology demonstration satellite ELITE

Thursday, 6 April 2000 16:30 (30 minutes)

Author: Y. JAFRY

Presenter: Y. JAFRY

Session Classification: Gravitation II

Contribution ID: **39**

Type: **not specified**

LISA status in NASA, LISA activities in the US

Thursday, 6 April 2000 17:00 (15 minutes)

Author: W.M. FOLKNER

Presenter: W.M. FOLKNER

Session Classification: Gravitation II

Contribution ID: **40**

Type: **not specified**

Search for axions

Thursday, 6 April 2000 14:00 (30 minutes)

Author: J. COLLAR

Presenter: J. COLLAR

Session Classification: Astroparticle Physics II

Contribution ID: 41

Type: **not specified**

Machos

Thursday, 6 April 2000 14:30 (30 minutes)

Author: M. SPIRO

Presenter: M. SPIRO

Session Classification: Astroparticle Physics II

Contribution ID: 42

Type: **not specified**

Search for antimatter and dark matter with AMS

Thursday, 6 April 2000 15:00 (30 minutes)

Author: K. LUBELSMEYER

Presenter: K. LUBELSMEYER

Session Classification: Astroparticle Physics II

Contribution ID: 43

Type: **not specified**

Solar neutrinos

Thursday, 6 April 2000 15:30 (30 minutes)

Author: S. PETCOV

Presenter: S. PETCOV

Session Classification: Astroparticle Physics II

Contribution ID: 44

Type: **not specified**

Atmospheric neutrinos

Thursday, 6 April 2000 16:00 (1h 10m)

Author: P. LIPARI

Presenter: P. LIPARI

Session Classification: Astroparticle Physics II

Contribution ID: 45

Type: **not specified**

Cold Dark Matter

Thursday, 6 April 2000 17:10 (15 minutes)

Author: P. BELLI

Presenter: P. BELLI

Session Classification: Astroparticle Physics II

Contribution ID: 46

Type: **not specified**

Address by the Director-General of CERN

Friday, 7 April 2000 09:00 (15 minutes)

Session Classification: Open Symposium

Contribution ID: 47

Type: **not specified**

Summary of the Gravitation II session

Friday, 7 April 2000 15:10 (35 minutes)

Author: M. HUBER

Presenter: M. HUBER

Session Classification: Open Symposium

Contribution ID: 48

Type: **not specified**

Testing general relativity

Friday, 7 April 2000 16:15 (15 minutes)

Author: N. STRAUMANN

Presenter: N. STRAUMANN

Session Classification: Open Symposium

Contribution ID: 49

Type: **not specified**

Address by the Director-General of ESA

Friday, 7 April 2000 09:15 (15 minutes)

Session Classification: Open Symposium

Contribution ID: 50

Type: **not specified**

Summary of the Cosmology session

Friday, 7 April 2000 09:30 (35 minutes)

Author: L. WOLTJER

Presenter: L. WOLTJER

Session Classification: Open Symposium

Contribution ID: 51

Type: **not specified**

Summary of the Gravitation I session

Friday, 7 April 2000 10:35 (35 minutes)

Author: G. SCHAEFER

Presenter: G. SCHAEFER

Session Classification: Open Symposium

Contribution ID: 52

Type: **not specified**

Summary of the Astroparticle Physics I session

Friday, 7 April 2000 11:10 (35 minutes)

Author: P.L. BIERMANN

Presenter: P.L. BIERMANN

Session Classification: Open Symposium

Contribution ID: 53

Type: **not specified**

Summary of the Astroparticle physics II session

Friday, 7 April 2000 11:45 (35 minutes)

Author: A. DE RUJULA

Presenter: A. DE RUJULA

Session Classification: Open Symposium

Contribution ID: 54

Type: **not specified**

Summary of the Instrumentation I session

Friday, 7 April 2000 14:00 (35 minutes)

Author: M. SPIRO

Presenter: M. SPIRO

Session Classification: Open Symposium

Contribution ID: 55

Type: **not specified**

Summary of the Instrumetnation II session

Friday, 7 April 2000 14:35 (35 minutes)

Author: G.M. VIERTEL

Presenter: G.M. VIERTEL

Session Classification: Open Symposium