

3rd ET GENERAL WORKSHOP

Report of Contributions

Contribution ID: 1

Type: **oral presentation**

Welcome Talk

Tuesday, November 23, 2010 2:00 PM (10 minutes)

Welcome talk by Prof Jozsef Palinkas (President of the Hungarian Academy of Sciences)

Presenter: Prof. PALINKAS, Jozsef (Magyar Tudomanyos Akademia)

Session Classification: General

Contribution ID: 2

Type: **oral presentation**

ET design Study Status and Perspectives

Tuesday, November 23, 2010 2:10 PM (30 minutes)

Primary authors: Dr LUECK, Harald (AEI Hannover (MPI f. gravitational Physics / Inst. f. Grav.physics Leibniz Uni Hannover)); PUNTURO, Michele (PG)

Presenters: Dr LUECK, Harald (AEI Hannover (MPI f. gravitational Physics / Inst. f. Grav.physics Leibniz Uni Hannover)); PUNTURO, Michele (PG)

Session Classification: General

Contribution ID: 3

Type: **oral presentation**

European Strategy for Research Infrastructures: the Hungarian view

Tuesday, November 23, 2010 2:40 PM (10 minutes)

Presenter: Prof. KROO, Norbert (Magyar Tudományos Akademia)

Session Classification: General

Contribution ID: 4

Type: **oral presentation**

The Third Generation Detector Pie and the Slices for Three Continents

Tuesday, November 23, 2010 2:50 PM (20 minutes)

Presenter: Prof. MARKA, Szabolcs (Columbia University)

Session Classification: General

Contribution ID: 5

Type: **oral presentation**

Status of the LCGT project

Tuesday, November 23, 2010 3:10 PM (20 minutes)

Presenter: Prof. KURODA, Kazuaki (ICRR, University of Tokyo)

Session Classification: General

Contribution ID: 6

Type: **oral presentation**

Status of the LISA project

Tuesday, November 23, 2010 3:30 PM (20 minutes)

Presenter: Prof. DANZMANN, Karsten (Albert-Einstein-Institut Hannover)

Session Classification: General

Contribution ID: 7

Type: **oral presentation**

Understanding neutron stars with ET

Tuesday, November 23, 2010 4:20 PM (25 minutes)

Presenter: Prof. REZZOLLA, Luciano

Session Classification: WP4- "Astrophysics issues"

Contribution ID: 8

Type: **oral presentation**

Multimessenger cosmology

Tuesday, November 23, 2010 4:45 PM (25 minutes)

Presenter: Dr VAN DEN BROECK, Chris (NIKHEF)

Session Classification: WP4- "Astrophysics issues"

Contribution ID: 9

Type: **oral presentation**

The compact binary population in ET: What are the rates and what astrophysics can we learn?

Tuesday, November 23, 2010 5:10 PM (25 minutes)

Presenter: Dr BULIK, Tomasz

Session Classification: WP4- "Astrophysics issues"

Contribution ID: **10**

Type: **oral presentation**

Intermediate mass black hole inspirals in ET

Tuesday, November 23, 2010 5:35 PM (15 minutes)

Presenters: Mr HUERTA, Eliu (Institute of Astronomy, Cambridge , UK); GAIR, Jonathan (University of Cambridge)

Session Classification: WP4- “Astrophysics issues”

Contribution ID: 11

Type: **oral presentation**

Testing GR with ET: The relevance of low-frequency sensitivity

Tuesday, November 23, 2010 5:50 PM (25 minutes)

Presenter: Dr LI, Tjonnie

Session Classification: WP4- "Astrophysics issues"

Contribution ID: 12

Type: **oral presentation**

The impact of ET detector topology on parameter estimation

Tuesday, November 23, 2010 6:15 PM (25 minutes)

Presenter: Dr VEITCH, john

Session Classification: WP4- "Astrophysics issues"

Contribution ID: 13

Type: **oral presentation**

ET Mock Data Challenge

Tuesday, November 23, 2010 6:40 PM (20 minutes)

Presenter: Dr REGIMBAU, Tania

Session Classification: WP4- "Astrophysics issues"

Contribution ID: 14

Type: **oral presentation**

The interferometer design of the Einstein Telescope

Wednesday, November 24, 2010 12:10 PM (40 minutes)

Presenter: Dr FREISE, Andreas (University of Birmingham)

Session Classification: WP3: Optics

Contribution ID: 15

Type: **oral presentation**

Quantum noise reduction for ET

Presenter: Dr MÜLLER-EBHARDT, Helge (AEI Hannover)

Contribution ID: 16

Type: **oral presentation**

Quantum noise reduction for ET

Wednesday, November 24, 2010 2:10 PM (25 minutes)

Presenter: Dr MÜLLER-EBHARDT, Helge (AEI Hannover)

Session Classification: WP3: Optics 2nd part

Contribution ID: 17

Type: **oral presentation**

The optical layout of ET

Wednesday, November 24, 2010 2:35 PM (25 minutes)

Presenter: Dr HILD, Stefan (University of Glasgow)

Session Classification: WP3: Optics 2nd part

Contribution ID: **18**

Type: **oral presentation**

Substrate specifications for the ET mirrors: state of art

Wednesday, November 24, 2010 3:00 PM (20 minutes)

Presenter: Dr NAWRODT, Ronny (Institute for Gravitational Research, University of Glasgow)

Session Classification: WP3: Optics 2nd part

Contribution ID: 19

Type: **oral presentation**

Surface specifications for the mirrors of the ET FP cavities: state of art

Wednesday, November 24, 2010 3:20 PM (20 minutes)

Presenter: GALIMBERTI, Massimo (LMA-CNRS)

Session Classification: WP3: Optics 2nd part

Contribution ID: 20

Type: **oral presentation**

Alternative technologies

Wednesday, November 24, 2010 3:40 PM (20 minutes)

Presenter: Dr SOMIYA, Kentaro (Caltech)

Session Classification: WP3: Optics 2nd part

Contribution ID: 21

Type: **oral presentation**

Site selection results

Wednesday, November 24, 2010 8:30 AM (20 minutes)

Presenter: Mr BEKER, Mark (NIKHEF)

Session Classification: WP1: Site and Infrastructures

Contribution ID: 22

Type: **oral presentation**

ET infrastructure

Wednesday, November 24, 2010 8:50 AM (20 minutes)

Presenter: Dr RABELING, David (Nikhef)

Session Classification: WP1: Site and Infrastructures

Contribution ID: 23

Type: **oral presentation**

ET vacuum infrastructure

Wednesday, November 24, 2010 9:10 AM (20 minutes)

Presenter: BRADASCHIA, Carlo (PI)

Session Classification: WP1: Site and Infrastructures

Contribution ID: 24

Type: **oral presentation**

GGN considerations

Wednesday, November 24, 2010 9:30 AM (20 minutes)

Presenter: CELLA, Giancarlo (PI)

Session Classification: WP1: Site and Infrastructures

Contribution ID: 25

Type: **oral presentation**

Site selection and infrastructure: status and future

Wednesday, November 24, 2010 9:50 AM (20 minutes)

Presenter: Prof. VAN DEN BRAND, Jo (Nikhef - VU)

Session Classification: WP1: Site and Infrastructures

Contribution ID: 26

Type: **oral presentation**

Mirror thermal and thermorefractive noise

Wednesday, November 24, 2010 10:30 AM (20 minutes)

Presenter: Dr DEGALLAIX, Jerome

Session Classification: WP2: Suspensions

Contribution ID: 27

Type: **oral presentation**

Substrate thermoelastic noise and thermo-optic noise at low temperature in low frequency region

Wednesday, November 24, 2010 10:50 AM (15 minutes)

Presenter: Dr YAMAMOTO, Kazuhiro

Session Classification: WP2: Suspensions

Contribution ID: 28

Type: **oral presentation**

Spectroscopic Ellipsometry on Ta₂O₅ films

Wednesday, November 24, 2010 11:05 AM (15 minutes)

Presenter: Dr CANEPA, Maurizio

Session Classification: WP2: Suspensions

Contribution ID: 29

Type: **oral presentation**

Silica fibers and silicon bonding for ET

Wednesday, November 24, 2010 11:20 AM (15 minutes)

Presenter: Dr REID, Stuart

Session Classification: WP2: Suspensions

Contribution ID: **30**

Type: **oral presentation**

Super attenuator for HF and LF interferometer

Wednesday, November 24, 2010 11:35 AM (20 minutes)

Presenters: FRASCONI, Franco (PI); Dr PASSAQUIETI, Roberto

Session Classification: WP2: Suspensions

Contribution ID: 31

Type: **oral presentation**

Thermal input reduction on the cryo-mirror

Wednesday, November 24, 2010 11:55 AM (15 minutes)

Presenter: GEMME, Gianluca (GE)

Session Classification: WP2: Suspensions