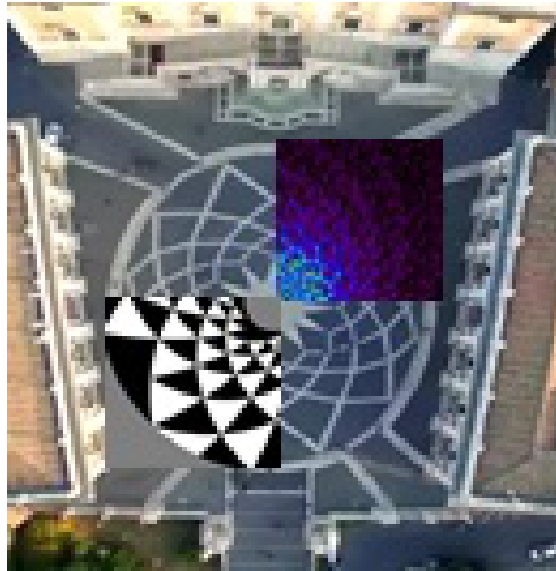


Finding Earth Twins within 10pc



Report of Contributions

Contribution ID: 19

Type: **Oral**

The Breakthrough Initiatives —The Search for Life in the Universe

Monday, 19 November 2018 10:00 (30 minutes)

Primary author: WORDEN, S. Pete (Breaktrough Foundation)

Presenter: WORDEN, S. Pete (Breaktrough Foundation)

Session Classification: Session 1

Contribution ID: 20

Type: **Oral**

The TOLIMAN space telescope

Monday, 19 November 2018 10:30 (30 minutes)

Primary author: TUTHILL, Peter (University of Sidney)

Presenter: TUTHILL, Peter (University of Sidney)

Session Classification: Session 1

Contribution ID: 21

Type: **Oral**

Possible mission design

Monday, 19 November 2018 11:00 (30 minutes)

Primary author: KLUPAR, Peter (Breakthrough Foundation)

Presenter: KLUPAR, Peter (Breakthrough Foundation)

Session Classification: Session 1

Contribution ID: 22

Type: **Oral**

Precision astrometry mission for exoplanet detection around binary stars

Monday, 19 November 2018 11:50 (30 minutes)

Primary author: BENDEK, Eduardo (NASA Ames)

Presenter: BENDEK, Eduardo (NASA Ames)

Session Classification: Session 2

Contribution ID: 23

Type: **Oral**

A panoramic view of concepts under discussion for future space astrometry

Monday, 19 November 2018 12:20 (25 minutes)

Primary author: KRONE MARTINS, Alberto (Universidade de Lisboa (Portugal))

Presenter: KRONE MARTINS, Alberto (Universidade de Lisboa (Portugal))

Session Classification: Session 2

Contribution ID: 24

Type: **Oral**

NEAT/THEIA/STARE

Monday, 19 November 2018 12:45 (25 minutes)

Primary author: BOEHM, Celine (Durham University)

Presenter: BOEHM, Celine (Durham University)

Session Classification: Session 2

Contribution ID: 25

Type: **Oral**

Gaia-inspired suggestions to TOLIMAN

Monday, 19 November 2018 13:10 (15 minutes)

Primary author: GAI, Mario (INAF - OATo)

Presenter: GAI, Mario (INAF - OATo)

Session Classification: Session 2

Contribution ID: 26

Type: **Oral**

Stellar magnetic activity and how it can limit astrometry

Monday, 19 November 2018 14:25 (25 minutes)

Primary author: LANZA, Antonino Francesco (Istituto Nazionale di Astrofisica (INAF))

Presenter: LANZA, Antonino Francesco (Istituto Nazionale di Astrofisica (INAF))

Session Classification: Session 3

Contribution ID: 27

Type: **Oral**

Detection and characterization of giant planets combining astrometry, radial velocities and transits: the GAIA potential

Monday, 19 November 2018 14:50 (25 minutes)

Primary author: GIACOBBE, Paolo (INAF-OATo)

Presenter: GIACOBBE, Paolo (INAF-OATo)

Session Classification: Session 3

Contribution ID: 28

Type: **Oral**

Proxima re-reloaded: updates about our closest stellar neighbour from the analysis of an enlarged radial velocity dataset

Monday, 19 November 2018 15:15 (15 minutes)

Primary author: DAMASSO, Mario (INAF-OATo)

Presenter: DAMASSO, Mario (INAF-OATo)

Session Classification: Session 3

Contribution ID: 29

Type: **Oral**

Climate and radiative properties of a tidally-locked planet around Proxima Centauri

Monday, 19 November 2018 15:30 (15 minutes)

Primary author: GIOVANNELLI , Luca (Università degli studi di Roma "Tor Vergata")

Presenter: GIOVANNELLI , Luca (Università degli studi di Roma "Tor Vergata")

Session Classification: Session 3

Contribution ID: 30

Type: **Oral**

The Breakthrough Watch Initiative: Identifying and Characterizing nearby Habitable Exoplanets

Monday, 19 November 2018 15:45 (25 minutes)

Primary author: GUYON, Olivier (University of Arizona)

Presenter: GUYON, Olivier (University of Arizona)

Session Classification: Session 3

Contribution ID: 31

Type: **Oral**

Push Technological Development for Exoplanet Search in Italy

Monday, 19 November 2018 16:30 (25 minutes)

Primary author: RAGAZZONI, Roberto (INAF - Astronomical Observatory of Padua)

Presenter: RAGAZZONI, Roberto (INAF - Astronomical Observatory of Padua)

Session Classification: Session 4

Contribution ID: 32

Type: **Oral**

Exoplanets in Italy

Monday, 19 November 2018 16:55 (25 minutes)

The main scientific projects involving the Italian exoplanets community will be presented with review of specific results and highlight of competences and expertises.

The aim is giving an overview from the current to future space and ground based programs.

Primary author: PAGANO, Isabella (Istituto Nazionale di Astrofisica (INAF))

Presenter: PAGANO, Isabella (Istituto Nazionale di Astrofisica (INAF))

Session Classification: Session 4

Contribution ID: 33

Type: **Oral**

Lessons from the Sun for precision Alpha Centauri astrometry experiments

Monday, 19 November 2018 17:20 (25 minutes)

Primary author: KUHN, Jeff (Institute for Astronomy)

Presenter: KUHN, Jeff (Institute for Astronomy)

Session Classification: Session 4

Contribution ID: 34

Type: **Oral**

Leonardo electro-optical capabilities for astronomical and exploration missions (Leonardo SpA)

Monday, 19 November 2018 17:45 (20 minutes)

Primary author: MOLINA, Marco (Leonardo Company)

Presenter: MOLINA, Marco (Leonardo Company)

Session Classification: Session 4

Contribution ID: 35

Type: **Oral**

Recent history and thoughts on Narrow angle astrometry Error sources at the uas level.

Tuesday, 20 November 2018 09:45 (25 minutes)

Primary author: SHAO, Michael (JPL - NASA)

Presenter: SHAO, Michael (JPL - NASA)

Session Classification: Session 5

Contribution ID: 36

Type: **Oral**

Spacecraft Capability for Astrometry Mission (EnduroSat)

Tuesday, 20 November 2018 10:10 (20 minutes)

Primary author: SISINNI, Giuseppe (EnduroSat)

Presenter: SISINNI, Giuseppe (EnduroSat)

Session Classification: Session 5

Contribution ID: 37

Type: **Oral**

Monitoring stellar optical centroid variations due to magnetic activity for astrometric detection of exoplanets: Lessons from the Gravity Probe B mission

Tuesday, 20 November 2018 10:30 (15 minutes)

Primary author: BERDYUGINA, Svetlana (Leibniz Institut fuer Sonennphysik (KIS), Freiburg, Germany)

Presenter: BERDYUGINA, Svetlana (Leibniz Institut fuer Sonennphysik (KIS), Freiburg, Germany)

Session Classification: Session 5

Contribution ID: 38

Type: **Oral**

Hunting Earth-like planets: a long roadmap supported by ThalesAlenia Space

Tuesday, 20 November 2018 10:45 (20 minutes)

Primary authors: MARTELLI, Andrea (Thales Alenia Space Italia); MOTTINI, Sergio (Thales Alenia Space Italia)

Presenters: MARTELLI, Andrea (Thales Alenia Space Italia); MOTTINI, Sergio (Thales Alenia Space Italia)

Session Classification: Session 5

Contribution ID: 39

Type: **Oral**

Astrometry in Italy

Tuesday, 20 November 2018 09:20 (25 minutes)

Primary author: SOZZETTI, Alessandro (INAF-OATo)

Presenter: SOZZETTI, Alessandro (INAF-OATo)

Session Classification: Session 5

Contribution ID: 40

Type: **Oral**

Italian space optics manufacturing, an industrial perspective (Media Lario)

Tuesday, 20 November 2018 11:55 (20 minutes)

Primary author: BIANUCCI, Giovanni (Media Lario)

Presenter: BIANUCCI, Giovanni (Media Lario)

Session Classification: Session 6

Contribution ID: 41

Type: **Oral**

Kayser Italia potential contribution to Toliman

Tuesday, 20 November 2018 11:35 (20 minutes)

Primary author: DONATI, Alessandro (Kayser Italia)

Presenter: DONATI, Alessandro (Kayser Italia)

Session Classification: Session 6

Contribution ID: 42

Type: **Oral**

Launch Opportunities with VEGA and advanced space propulsion concepts

Tuesday, 20 November 2018 12:35 (20 minutes)

Presenter: PELLEGRINI, Rocco (ASI Italian Space Agency)

Session Classification: Session 6

Contribution ID: 43

Type: **Oral**

OHB Italia capabilities for TOLIMAN mission (OHB Italia)

Tuesday, 20 November 2018 12:15 (20 minutes)

Primary author: SARRA, Paolo (OHB Italia SpA)

Presenter: SARRA, Paolo (OHB Italia SpA)

Session Classification: Session 6

Contribution ID: 44

Type: **Oral**

EDEN: The Search for Nearby Transiting Earths

Tuesday, 20 November 2018 12:55 (15 minutes)

Primary author: MANCINI, Luigi (Department of Physics, University of Rome "Tor Vergata")

Presenter: MANCINI, Luigi (Department of Physics, University of Rome "Tor Vergata")

Session Classification: Session 6

Contribution ID: 45

Type: **Oral**

Exoplanet occurrences statistics

Tuesday, 20 November 2018 14:35 (25 minutes)

(remote)

Primary author: BELIKOV, Ruslan (NASA Ames Research Center)

Presenter: BELIKOV, Ruslan (NASA Ames Research Center)

Session Classification: Session 7

Contribution ID: 46

Type: **Oral**

EDEN: The Search for Nearby Transiting Earths

Primary author: MANCINI, Luigi (Department of Physics, University of Rome 2)

Presenter: MANCINI, Luigi (Department of Physics, University of Rome 2)

Session Classification: Session 7

Contribution ID: 47

Type: **Oral**

SHARK-VIS at LBT: pushing the limits of visible AO-assisted imaging for exoplanets

Tuesday, 20 November 2018 15:15 (15 minutes)

Primary author: PEDICHINI, Fernando (Istituto Nazionale di Astrofisica (INAF))

Presenter: PEDICHINI, Fernando (Istituto Nazionale di Astrofisica (INAF))

Session Classification: Session 7

Contribution ID: 48

Type: **Oral**

Recurrence Quantification Analysis as a Post-processing technique in Adaptive Optics High Contrast Imaging

Tuesday, 20 November 2018 15:30 (15 minutes)

Primary author: STANGALINI, Marco (Istituto Nazionale di Astrofisica (INAF))

Presenter: STANGALINI, Marco (Istituto Nazionale di Astrofisica (INAF))

Session Classification: Session 7

Contribution ID: 49

Type: **Oral**

Fast-cadence high-contrast imaging: the Speckle-Free ADI (SFADI) method

Tuesday, 20 November 2018 15:45 (15 minutes)

Primary author: LI CAUSI, Gianluca (Istituto Nazionale di Astrofisica (INAF))

Presenter: LI CAUSI, Gianluca (Istituto Nazionale di Astrofisica (INAF))

Session Classification: Session 7

Contribution ID: 50

Type: **not specified**

The ASI SSCDC infrastructure and expertise for exoplanetary sciences

Tuesday, 20 November 2018 16:00 (15 minutes)

Primary author: ZINZI, Angelo (SSDC - ASI)

Presenter: ZINZI, Angelo (SSDC - ASI)

Session Classification: Session 7

Contribution ID: **60**

Type: **Oral**

Astrometric Gravitation Probe

Tuesday, 20 November 2018 15:00 (15 minutes)

Primary author: RIVA, Alberto (Istituto Nazionale di Astrofisica (INAF))

Presenter: RIVA, Alberto (Istituto Nazionale di Astrofisica (INAF))

Session Classification: Session 7

Contribution ID: 62

Type: **not specified**

Technosignatures

Tuesday, 20 November 2018 13:10 (25 minutes)

Primary author: BALBI, Amedeo (Dipartimento di Fisica, Università di Roma “Tor Vergata”)

Presenter: BALBI, Amedeo (Dipartimento di Fisica, Università di Roma “Tor Vergata”)

Session Classification: Session 6

Contribution ID: 64

Type: **Oral**

Exoplanets in Italy

The main scientific projects involving the Italian exoplanets community will be presented with review of specific results and highlight of competences and expertises.

The aim is giving an overview from the current to future space and ground based programs.

Presenter: PAGANO, Isabella (Istituto Nazionale di Astrofisica (INAF))

Session Classification: Session 4