

Optical and Infrared Interferometry and Imaging VI

Monday - Friday 11 - 15 June 2018

Conference Sessions At A Glance

SHOW | HIDE

Monday Plenary Session
1: Current and Planned Facilities I
2: Current and Planned Facilities II
3: Current and Planned Facilities III
 Posters: Critical Subsystems
 Posters: Current and Planned Facilities and Instruments
 Posters: Observing Techniques
 Posters: Future of Interferometry
 Tuesday Plenary Session
4: Techniques I
5: Techniques II
6: Techniques III
 Posters: Data processing, Analysis, Access, and Discovery
 Posters: Technologies
 Wednesday Plenary Session
7: Future of Interferometry I
8: Future of Interferometry II
9: Data Processing I
 Thursday Plenary Session
10: Space Interferometry
11: Data Processing II
12: Technologies I
 Imaging Beauty Contest Winners
13: Technologies II
14: Critical Subsystems
15: Michelson, Fizeau and Thesis Prizes
16: Critical Subsystems II

Important Dates

SHOW | HIDE

Abstract Due:
15 November 2017

Author Notification:
23 February 2018

Manuscript Due Date:
16 May 2018

Conference Committee

SHOW | HIDE

Conference Chairs

[Michelle J. Creech-Eakman](#), New Mexico Institute of Mining and Technology (United States)

[Peter G. Tuthill](#), The Univ. of Sydney (Australia)

[Antoine Mérand](#), European Southern Observatory (Chile)

Program Committee

[Elynn K. Baines](#), U.S. Naval Research Lab. (United States)

[Fabien Baron](#), Georgia State Univ. (United States)

[Jean-Philippe Berger](#), European Southern Observatory (Chile)

[Elliott P. Horch](#), Southern Connecticut State Univ. (United States)

Program Committee continued...

[Takayuki Kotani](#), National Astronomical Observatory of Japan (Japan)

[Lucas Labadie](#), Univ. zu Köln (Germany)

[Fabien Malbet](#), Institut de Planétologie et d'Astrophysique de Grenoble (France)

[Keiichi Ohnaka](#), Univ. Católica del Norte (Chile)

[Claudia Paladini](#), Univ. Libre de Bruxelles (Belgium)

[Isabelle Tallon-Bosc](#), Ctr. de Recherche Astronomique de Lyon (France)

MONDAY 11 JUNE

[Show All Abstracts](#)

Monday Plenary Session

Monday 11 June 2018

8:50 AM - 10:00 AM

Location: CC Level 1, Ballroom A

Coffee Break 10:00 AM - 10:30 AM

Welcome and Announcements

Monday 11 June 2018
10:30 AM - 10:40 AM
Location: CC Level 3, Room 4A/C

Session Chairs: [Michelle J. Creech-Eakman](#), New Mexico Institute of Mining and Technology (United States) ; [Peter G. Tuthill](#), The Univ. of Sydney (Australia) ; [Antoine Mérand](#), European Southern Observatory (Chile)

Session 1: Current and Planned Facilities I

Monday 11 June 2018
10:40 AM - 12:10 PM
Location: CC Level 3, Room 4A/C


Session Chair: [Antoine Mérand](#), European Southern Observatory (Chile)

Recent technical and scientific highlights from the CHARA array *(Invited Paper)*

Paper 10701-1

Time: 10:40 AM - 11:10 AM

Author(s): Douglas R. Gies, Theo A. ten Brummelaar, CHARA, Georgia State Univ. (United States); Matthew D. Anderson, CHARA (United States); Christopher D. Farrington, Steven Golden, CHARA (United States); Jeremy W. Jones, CHARA (United States), Georgia State Univ. (United States); Robert Klement, Olli Majoinen, Gail H. Schaefer, Judit Sturmman, Laszlo Sturmman, Nils H. Turner, Norman L. Vargas, Larry Webster, Craig Woods, CHARA (United States); Stephen T. Ridgway, National Optical Astronomy Observatory (United States)


[Add To My Schedule](#) 

VLTI status update: three years into the second generation *(Invited Paper)*

Paper 10701-2

Time: 11:10 AM - 11:40 AM

Author(s): Julien Woillez, Pascaline Darré, Sébastien Egner, Frédéric Gonté, European Southern Observatory (Germany); Xavier Haubois, European Southern Observatory (Chile); Antoine Mérand, European Southern Observatory (Germany); Nicolas Schuhler, European Southern Observatory (Chile); José Antonio Abad, Roberto Abuter, Emmanuel Aller-Carpentier, European Southern Observatory (Germany); Jaime Alonso, European Southern Observatory (Chile); Luigi Andolfato, Pablo José Barriga, European Southern Observatory (Germany); Juan Beltran, European Southern Observatory (Chile); Jean-Philippe Berger, Université Grenoble Alpes, CNRS, IPAG (France); Pierre Bourget, European Southern Observatory (Chile); Roland Brast, Paul Bristow, European Southern Observatory (Germany); Luis Caniguante, European Southern Observatory (Chile); Ralf Conzelmann, European Southern Observatory (Germany); Angela Cortes, European Southern Observatory (Chile); Alain Delboulbé, Université Grenoble Alpes (France); Françoise Delplancke-Ströbele, European Southern Observatory (Germany); Diego Del Valle, European Southern Observatory (Chile); Roderick Dombet, Frédéric Derie, European Southern Observatory (Germany); Reinaldo Donoso, Philippe Duhoux, European Southern Observatory (Chile); Christophe Dupuy, Andreas Föster, European Southern Observatory (Germany); Eloy Fuenteseca, European Southern Observatory (Chile); Robert Frahm, European Southern Observatory (Germany); Daniel Gaytan, European Southern Observatory (Chile); Andreas Glindemann, European Southern Observatory (Germany); Jaime Gonzales, European Southern Observatory (Chile); Thibaut Guerlet, European Southern Observatory (Germany); Sylvain Guieu, Université Grenoble Alpes (France); Stéphane Guisard, Pablo Gutierrez, Pierre Haguenaer, Andreas Haimerl, European Southern Observatory (Germany); Pierre van der Heyden, European Southern Observatory (Chile); Stefan Huber, Norbert Hubin, Lieselotte Jochum, European Southern Observatory (Germany); Laurent Jocou, Université Grenoble Alpes (France); Paul Jolley, Jean-Paul Kirchbauer, European Southern Observatory (Germany); Johann Kolb, European Southern Observatory (Chile); Johan Kosmalski, Peter Krempf, European Southern Observatory (Germany); Jean-Baptiste Le Bouquin, Université Grenoble Alpes (France); Samuel Lévêque, Paul Lilley, Jean-Louis Lizon, European Southern Observatory (Germany); Yves Magnard, Université Grenoble Alpes (France); Pedro Mardones, Alexandre Meister, European Southern Observatory (Chile); Thibaut Moulin, Université Grenoble Alpes (France); Juan Osorio, European Southern Observatory (Chile); Jürgen Ott, redlogix Software & System Engineering GmbH (Germany); Laurent Pallanca, European Southern Observatory (Chile); Jérôme Paufigue, European Southern Observatory (Germany); Marcus Pavez, European Southern Observatory (Chile); Luca Pasquini, Isabelle Percheron, Lorenzo Pettazzi, Thanh Phan Duc, Jean-François Pirard, European Southern Observatory (Germany); Andres Pino, Sébastien Poupau, European Southern Observatory (Chile); Jutta Quentin, European Southern Observatory (Germany); Andrés Ramírez, European Southern Observatory (Chile); Javier Reyes, Robert Ridings, European Southern Observatory (Germany); Sylvain Rochat, Université Grenoble Alpes (France); Thomas Rivinius, Fernando Salgado, European Southern Observatory (Chile); Markus Schöller, Pavel Schekatur, European Southern Observatory (Germany); Christian Stephan, European Southern Observatory (Chile); Marcos Suarez, European Southern Observatory (Germany); Richard Tamblay, Mario Tapia, Konrad Tristram, Guillermo Valdes, European Southern Observatory (Chile); Christophe Verinaud, European Southern Observatory (Germany); Willem-Jan de Wit, Gérard Zins, European Southern Observatory (Chile)


[Add To My Schedule](#) 

Refining the LBT interferometer (Conference Presentation) *(Invited Paper)*

Paper 10701-3

Time: 11:40 AM - 12:10 PM

Author(s): Philip M. Hinz, The Univ. of Arizona (United States)

[Add To My Schedule](#) 

Lunch Break 12:10 PM - 1:40 PM

Session 2: Current and Planned Facilities II

Monday 11 June 2018
1:40 PM - 3:20 PM
Location: CC Level 3, Room 4A/C


Session Chair: [Peter G. Tuthill](#), The Univ. of Sydney (Australia)

Many interesting things are afoot at the Navy Precision Optical Interferometer *(Invited Paper)*

Paper 10701-4

Time: 1:40 PM - 2:10 PM

Author(s): Gerard T. van Belle, Lowell Observatory (United States); J. T. Armstrong, U.S. Naval Research Lab. (United States); J. A. Benson, U.S. Naval Observatory (United States); E. K. Baines, R. G. Bevilacqua, U.S. Naval Research Lab. (United States); T. Buschmann, AZ Embedded Systems, LLC. (United States); J. H. Clark, U.S. Naval Research Lab. (United States); W. T. DeGroot, J. C. Hall, Lowell Observatory (United States); R. Hindsley, U.S. Naval Research Lab. (United States); A. M. Jorgensen, New Mexico Institute of Mining and Technology (United States); Allison Lindgren, Lowell Observatory (United States); D. Mozurkewich, Seabrook Engineering (United States); M. W. Muterspaugh, Tennessee State University (United States); Shane Pooler, Lowell Observatory (United States); S. R. Restaino, H. R. Schmitt, U.S. Naval Research Lab. (United States); P. D. Shankland, R. Zavala, U.S. Naval Observatory (United States)


[Add To My Schedule](#) 

The Magdalena Ridge Observatory interferometer: first light and deployment of the first telescope on the array (*Invited Paper*)

Paper 10701-5

Time: 2:10 PM - 2:40 PM

Author(s): Michelle Creech-Eakman, Van D. Romero, Ifan Payne, New Mexico Institute of Mining and Technology (United States); Chris A. Haniff, David F. Buscher, John S. Young, Univ. of Cambridge (United Kingdom); Fernando Santoro, Robert Balsi, Chuck Dahl, New Mexico Institute of Mining and Technology (United States); Johnathan Dooley, Dylan Etscorn, Allen Farris, Magdalena Ridge Observatory/New Mexico Institute of Mining and Technology (United States); Martin Fisher, Univ. of Cambridge (United Kingdom); Erica Garcia, Colleen Gino, Brandon Jaynes, Louis Jencka, Magdalena Ridge Observatory/New Mexico Institute of Mining and Technology (United States); P. Johnston, New Mexico Institute of Mining and Technology (United States); Colby Jurgenson, Genesis Engineering Inc. (United States); Robert Kelly, Dan Klinglesmith, E. Robert Ligon, Magdalena Ridge Observatory/New Mexico Institute of Mining and Technology (United States); James Luis, Univ. of Cambridge (United Kingdom); Tyler McCracken, Ball Aerospace (United States); Caylin McKeen, Magdalena Ridge Observatory/New Mexico Institute of Mining and Technology (United States); Dan Mortimer, Univ. of Cambridge (United Kingdom); Danielle Ochoa, Andres Olivares, Juan Pino, Chris Salcido, Magdalena Ridge Observatory/New Mexico Institute of Mining and Technology (United States); Luke M. Schmidt, Dept. of Physics and Astronomy, Texas A&M (United States); Bodie Seneta, Xiaowei Sun, Donald Wilson, Univ. of Cambridge (United Kingdom)


[Add To My Schedule](#) 

The GRAVITY fringe tracker: correlation between optical path residuals and atmospheric parameters

Paper 10701-6

Time: 2:40 PM - 3:00 PM

Author(s): Sylvestre Lacour, Roderick Dembet, Observatoire de Paris à Meudon (France); Roberto Abuter, European Southern Observatory (Germany); Pierre Fedou, Guy Perrin, Observatoire de Paris à Meudon (France); Frank Eisenhauer, Max-Planck-Institut für extraterrestrische Physik (Germany); Karine Perraut, Institut de Planétologie et d'Astrophysique de Grenoble (France); Christian Straubmeier, Univ. zu Köln (Germany); Wolfgang Brandner, Max-Planck-Institut für Astronomie (Germany); António Amorim, Univ. de Lisboa (Portugal)


[Add To My Schedule](#) 

Ten micro-arcsecond astrometry with GRAVITY: first science results

Paper 10701-7

Time: 3:00 PM - 3:20 PM

Author(s): Feng Gao, Oliver Pfuhl, Frank Eisenhauer, Max-Planck-Institut für extraterrestrische Physik (Germany); Julien Woillez, European Southern Observatory (Germany); Stefan Gillessen, Max-Planck-Institut für extraterrestrische Physik (Germany); Guy Perrin, Observatoire de Paris (France); Christian Straubmeier, I. Physikalisches Institut, Univ. zu Köln (Germany); Karine Perraut, Univ. Grenoble Alpes (France), Ctr. National de la Recherche Scientifique (France), Institut de Planétologie et d'Astrophysique de Grenoble (France); António Amorim, Univ. de Lisboa (Portugal); Wolfgang Brandner, Max-Planck-Institut für Astronomie (Germany); Antoine Mérand, European Southern Observatory (Germany); Pierre Kervella, Observatoire de Paris (France); Idel Waisberg, Max-Planck-Institut für extraterrestrische Physik (Germany)

[Add To My Schedule](#) 

Coffee Break 3:20 PM - 4:00 PM

Session 3: Current and Planned Facilities III

Monday 11 June 2018

4:00 PM - 5:00 PM

Location: CC Level 3, Room 4A/C


Session Chair: [Michelle J. Creech-Eakman](#), New Mexico Institute of Mining and Technology (United States)

Commissioning MATISSE: first results

Paper 10701-8

Time: 4:00 PM - 4:20 PM

Author(s): Romain Petrov, Fatmé Allouche, Philippe Berio, Alain Chelli, Pierre Cruzalèbes, Yan Fanteï-Caujolle, Observatoire de la Côte d'Azur (France); Walter Jaffe, Huygens Laboratory (Netherlands); Andreas Glidemann, ESO (Germany); Stéphane Lagarde, Bruno Lopez, Alexis Matter, Observatoire de la Côte d'Azur (France); Anthony Meilland, Observatoire de la Côte d'Azur (France), ESO (Germany); Florentin Millour, Sebastien Morel, Observatoire de la Côte d'Azur (France); Claudia Paladini, Thomas Rivinius, ESO (Germany); Sylvie Robbe-Dubois, Sylvain Rousseau, Observatoire de la Côte d'Azur (France); Markus Schöller, ESO (Germany); Jozsef Varga, Konkoly Observatory (Hungary); Gérard Zins, ESO (Germany)


[Add To My Schedule](#) 

FIRST, the pupil-remapping fiber interferometer at Subaru telescope: towards photonic beam-combination with phase control and on-sky commissioning results (*Conference Presentation*)

Paper 10701-9

Time: 4:20 PM - 4:40 PM


Author(s): Nick Cvetojevic, Elsa Huby, Observatoire de Paris (France); Guillermo Martin, Univ. Grenoble Alpes (France); Sylvestre Lacour, Observatoire de Paris (France); Franck Marchis, SETI Institute (United States); Julien Lozi, Subaru Telescope, National Astronomical Observatory of Japan (United States); Nemanja Jovanovic, Caltech (United States); Sébastien Vievard, Olivier Guyon, Subaru Telescope, National Astronomical Observatory of Japan (United States); Lucien Gauchet, Observatoire de Paris (France); Guy Perrin, Observatoire de Paris (France), Ctr. National de la Recherche Scientifique (France), Institut National des Sciences de l'Univers (France); Gaspard Duchêne, Univ. of California, Berkeley (United States); Takayuki Kotani, National Astronomical Observatory of Japan (Japan)

[Add To My Schedule](#) **An infrared beam combiner for wavelength bootstrapping at the NPOI**

Paper 10701-10

Time: 4:40 PM - 5:00 PM

Author(s): J. Thomas Armstrong, Henrique R. Schmitt, Sergio R. Restaino, Ellyn K. Baines, U.S. Naval Research Lab. (United States); Gerard T. van Belle, Lowell Observatory (United States)

[Add To My Schedule](#) 

Posters: Critical Subsystems

Monday 11 June 2018

5:30 PM - 7:00 PM

Location: CC Level 1, Exhibit Hall 2


Posters in this session may be displayed beginning at 10.00 on the designated day and will be available for extended viewing. The interactive poster session with authors in attendance will be Monday evening from 5:30 to 7:00 PM (followed by the Welcome Reception). Authors should remove their posters at the end of the poster session. Posters left displayed will be considered unwanted and will be discarded. :: :: Poster presentation guidelines are available [<http://spie.org/conferences-and-exhibitions/astronomical-telescopes-and-instrumentation/for-authors-and-presenters/poster-presentation-guidelines>]{+}{online]}.

Prototyping FOURIER: the first generation near-infrared science beam combiner at the MROI

Paper 10701-60

Time: 5:30 PM - 7:00 PM


Author(s): Daniel Mortimer, David Buscher, Univ. of Cambridge (United Kingdom)

[Add To My Schedule](#) **The MROI fringe tracking system: camera hardware modifications to integrate the SAPHIRA detector**

Paper 10701-61

Time: 5:30 PM - 7:00 PM


Author(s): Edgar R. Ligon, Chris D. Salcido, Magdalena Ridge Observatory, New Mexico Institute of Mining and Technology (United States); David F. Buscher, Univ. of Cambridge (United Kingdom); Michelle Creech-Eakman, Magdalena Ridge Observatory, New Mexico Institute of Mining and Technology (United States); Christopher A. Haniff, Univ. of Cambridge (United Kingdom); Fernando G. Santoro, Magdalena Ridge Observatory, New Mexico Institute of Mining and Technology (United States); Colby A. Jurgenson, Genesis Engineering Solutions, Inc. (United States); Tyler M. McCracken, Yale Univ. (United States); Luke M. Schmidt, Texas A&M Univ. (United States); John S. Young, Univ. of Cambridge (United Kingdom)

[Add To My Schedule](#) **Control of piezoelectric actuator with hysteresis and creep**

Paper 10701-63

Time: 5:30 PM - 7:00 PM

Author(s): Jean-Pierre Folcher, Univ. de Nice Sophia Antipolis (France); Paolo Lazzarini, Electrolux Italia S.p.A. (Italy)

[Add To My Schedule](#) 

Posters: Current and Planned Facilities and Instruments

Monday 11 June 2018

5:30 PM - 7:00 PM

Location: CC Level 1, Exhibit Hall 2


Posters in this session may be displayed beginning at 10.00 on the designated day and will be available for extended viewing. The interactive poster session with authors in attendance will be Monday evening from 5:30 to 7:00 PM (followed by the Welcome Reception). Authors should remove their posters at the end of the poster session. Posters left displayed will be considered unwanted and will be discarded. :: :: Poster presentation guidelines are available [<http://spie.org/conferences-and-exhibitions/astronomical-telescopes-and-instrumentation/for-authors-and-presenters/poster-presentation-guidelines>]{+}{online]}.

NESSI and 'Alopeke: two new dual-channel speckle imaging instruments

Paper 10701-65

Time: 5:30 PM - 7:00 PM


Author(s): Nicholas J. Scott, Steve B. Howell, NASA Ames Research Ctr. (United States)

[Add To My Schedule](#) **MATISSE: performance in laboratory, results of AIV in Paranal, and first results on sky**

Paper 10701-66

Time: 5:30 PM - 7:00 PM


Author(s): Sylvie Robbe-Dubois, Stéphane Lagarde, Pierre Antonelli, Bruno Lopez, Fatmé Allouche, Christophe Baillet, Philippe Berio, Yves Bresson, Jean-Michel Clause, Pierre Cruzalèbes, Yan Fantei-Caujolle, Aurélie Marcotto, Alexis Matter, Observatoire de la Côte d'Azur (France); Anthony Meilland, Observatoire de la Côte d'Azur (France), ESO (Chile); Florentin Millour, Sebastien Morel, Romain Petrov, Sylvain Rousseau, Anthony Soulain, Observatoire de la Côte d'Azur (France); Gérard Zins, ESO (Chile); Michael Lehmitz, Werner Laun, Tobias Adler, Ralf Klein, Tobias Maurer, Max-Planck-Institut für Astronomie (Germany); Felix Bettonvil, Eddy Eldswick, ASTRON (Netherlands); Udo Beckmann, Matthias Heininger, Max-Planck-Institut für Radioastronomie (Germany); Paul Bristow, Andreas Glindemann, Norbert Hubin, Liselotte Jochum, ESO (Germany); Thomas Rivinus, ESO (Chile); Markus Schoeller, ESO (Germany); Juan Beltran, Pierre Bourget, Alexandre Gallenne, ESO (Chile); Thibaut Guerlet, Max-Planck-Institut für Radioastronomie (Germany); Xavier Haubois, ESO (Chile); Derek Ives, Gerd Jakob, ESO (Germany); Alexander Meister, Miguel Riquelme, Nicolas Schuhler, Christian Stephan, Pedro Toledo, Konrad Tristram, Julien Woillez, ESO (Chile); Udo Neumann, Max-Planck-Institut für Astronomie (Germany); Alain Chelli, Florence Guitton, Observatoire de la Côte d'Azur (France); Klaus Meisenheimer, Max-Planck-Institut für Astronomie (Germany); Bernard Pichon, Alain Spang, Jozsef Varga, Observatoire de la Côte d'Azur (France); Thomas Henning, Max-Planck-Institut für Astronomie (Germany); Walter Jaffe, Leiden University (Netherlands); Luca Pasquini, ESO (Germany); Philippe Stee, Observatoire de la Côte d'Azur (France); Gerd Weigelt, Max-Planck-Institut für Radioastronomie (Germany)

[Add To My Schedule](#) **Initial steps toward a new method of atmospheric characterization over long baseline arrays**

Paper 10701-67

Time: 5:30 PM - 7:00 PM


Author(s): Jonathan Dooley, Magdalena Ridge Observatory, New Mexico Institute of Mining and Technology (United States); Michelle Creech-Eakman, Magdalena Ridge Observatory (United States)

[Add To My Schedule](#) **Towards controlled Fizeau observations with the Large Binocular Telescope**

Paper 10701-68

Time: 5:30 PM - 7:00 PM


Author(s): Eckhart Spalding, Phil Hinz, Steve Ertel, Erin Maier, Jordan Stone, The Univ. of Arizona (United States)

[Add To My Schedule](#) **Improving GRAVITY towards observations of faint targets**

Paper 10701-69

Time: 5:30 PM - 7:00 PM


Author(s): Felix Widmann, Frank Eisenhauer, Max-Planck-Institut für extraterrestrische Physik (Germany); Guy Perrin, Observatoire de Paris à Meudon (France); Wolfgang Brandner, Max-Planck-Institut für Astronomie (Germany); Christian Straubmeier, I. Physikalisches Institut (Germany); Karine Perraut, Institut de Planétologie et d'Astrophysique de Grenoble (France); António Amorim, Univ. de Lisboa (Portugal); Markus Schoeller, European Southern Observatory (Germany); Feng Gao, Reinhard Genzel, Stefan Gillessen, Martina Karl, Max-Planck-Institut für extraterrestrische Physik (Germany); Sylvestre Lacour, Observatoire de Paris à Meudon (France); Magdalena Lippa, Thomas Ott, Oliver Pfuhl, Philipp Plewa, Idel Waisberg, Max-Planck-Institut für extraterrestrische Physik (Germany)

[Add To My Schedule](#) **Augmented design for a fully automated alignment system at the Magdalena Ridge Observatory Interferometer**

Paper 10701-71

Time: 5:30 PM - 7:00 PM


Author(s): James Luis, Univ. of Cambridge (United Kingdom); Robert Blasi, Magdalena Ridge Observatory, New Mexico Institute of Mining and Technology (United States); David F. Buscher, Univ. of Cambridge (United Kingdom); Allen Farris, Robert Kelly, Robert Ligon, Magdalena Ridge Observatory, New Mexico Institute of Mining and Technology (United States)

[Add To My Schedule](#) **NAOMI: the adaptive optics for the auxiliary telescopes of VLTI**

Paper 10701-72

Time: 5:30 PM - 7:00 PM


Author(s): Frédéric Gonté, Sébastien Egner, Pierre Haguenauer, Julien Woillez, Emmanuel Aller-carpentier, European Southern Observatory (Germany); Jaime Alonso, European Southern Observatory (Chile); Luigo Andolfato, European Southern Observatory (Germany); Pierre Bourget, European Southern Observatory (Chile); Pascaline Darré, Roderick Dembet, Christophe Dupuy, Pablo Gutierrez, Stefan Huber, Norbert Hubin, Jean-paul Kirchbauer, Johann Kolb, Johan Kosmalski, European Southern Observatory (Germany); Alexander Meister, European Southern Observatory (Chile); Luca Pasquini, Javier Reyes, Pavel Shcheketurov, European Southern Observatory (Germany); Nicolas Schuhler, European Southern Observatory (Chile); Christian Stephan, European Southern Observatory (Germany); Guillermo Valdes, European Southern Observatory (Chile); Christophe Verinaud, European Southern Observatory (Germany); Jean-Philippe Berger, Jean-baptiste Le Bouquin, Sylvain Guieu, Alain Delboulbe, Laurent Jocou, Yves Magnard, Thibaut Moulin, Sylvain Rochat, Eric Stadler, IPAG (France); Peter Kreml, KRP-Mecatec (Germany)

[Add To My Schedule](#) **Magdalena Ridge Observatory interferometer: UT#1 site installation, alignment and test**

Paper 10701-73

Time: 5:30 PM - 7:00 PM


Author(s): Christian Bastin, Olivier Pimay, Vincent Moreau, Carlo Flebus, AMOS Ltd. (Belgium); Andres Olivares, New Mexico Institute of Mining and Technology (United States)

[Add To My Schedule](#) **Towards integration of the Unit Telescope for the Magdalena Ridge Observatory interferometer**

Paper 10701-74

Time: 5:30 PM - 7:00 PM

Author(s): Andres Olivares, Fernando Santoro, Christopher Salcido, Robert Ligon, Chuck Dahl, Pery Johnston, Robert Blasi, Allen Farris, Dylan Etscom, Michelle Creech-Eakman, Ian Payne, New Mexico Institute of Mining and Technology (United States); John Young, Univ. of Cambridge (United Kingdom); Davide Marzotto, EIE Group s.r.l. (Italy); Olivier Pimay, AMOS Ltd. (Belgium)

[Add To My Schedule](#) 

Posters: Observing Techniques

Monday 11 June 2018

5:30 PM - 7:00 PM

Location: CC Level 1, Exhibit Hall 2


Posters in this session may be displayed beginning at 10.00 on the designated day and will be available for extended viewing. The interactive poster session with authors in attendance will be Monday evening from 5:30 to 7:00 PM (followed by the Welcome Reception). Authors should remove their posters at the end of the poster session. Posters left displayed will be considered unwanted and will be discarded. :: :: Poster presentation guidelines are available [<http://spie.org/conferences-and-exhibitions/astronomical-telescopes-and-instrumentation/for-authors-and-presenters/poster-presentation-guidelines>]+{online}].

Simulation and experimental study on the detection of binary stars with non-redundant aperture masking

Paper 10701-78

Time: 5:30 PM - 7:00 PM

Author(s): Yanqiang Wang, Nanjing Institute of Astronomical Optics & Technology (China); Zhen Wu, Qian Li, Teng Xu, Mingming Xu, Huatao Zhang, Yonghui Hou, Nanjing Institute of Astronomical Optics & Technology, Chinese Academy of Sciences (China)


[Add To My Schedule](#) 

Simultaneous ground- and space-based observations in the JWST era

Paper 10701-80

Time: 5:30 PM - 7:00 PM

Author(s): Albert R. Conrad, Christian Veillet, Large Binocular Telescope Observatory (United States)

[Add To My Schedule](#) 

Posters: Future of Interferometry

Monday 11 June 2018

5:30 PM - 7:00 PM

Location: CC Level 1, Exhibit Hall 2

Posters in this session may be displayed beginning at 10.00 on the designated day and will be available for extended viewing. The interactive poster session with authors in attendance will be Monday evening from 5:30 to 7:00 PM (followed by the Welcome Reception). Authors should remove their posters at the end of the poster session. Posters left displayed will be considered unwanted and will be discarded.


Poster presentation guidelines are available [online](#).

Can telescopes with elongated pupils achieve higher contrast and resolution?

Paper 10701-76

Time: 5:30 PM - 7:00 PM

Author(s): Guy Nir, Weizmann Institute of Science (Israel); Barak Zackay, Institute for Advanced Study (United States); Eran O. Ofek, Weizmann Institute of Science (Israel)

[Add To My Schedule](#) 

TUESDAY 12 JUNE

[Show All Abstracts](#)

Tuesday Plenary Session

Tuesday 12 June 2018

9:00 AM - 10:00 AM

Location: CC Level 1, Ballroom A

Coffee Break 10:00 AM - 10:30 AM

Session 4: Techniques I

Tuesday 12 June 2018

10:30 AM - 12:00 PM

Location: CC Level 3, Room 4A/C


Session Chair: [Stephanie Sallum](#), Univ. of California, Santa Cruz (United States)

Masking interferometry at 150: old enough to mellow on redundancy? (*Invited Paper*)

Paper 10701-11

Time: 10:30 AM - 11:00 AM

Author(s): Peter G. Tuthill, The Univ. of Sydney (Australia)


[Add To My Schedule](#) 

Multiplexed holographic aperture masking with liquid-crystal geometric phase masks

Paper 10701-12

Time: 11:00 AM - 11:20 AM

Author(s): David S. Doelman, Leiden Observatory, Leiden Univ. (Netherlands); Peter Tuthill, Barnaby Norris, The Univ. of Sydney (Australia); Michael J. Wilby, Emiel H. Por, Leiden Observatory (Netherlands); Christoph U. Keller, Leiden Observatory, Leiden Univ. (Netherlands); Michael J. Escuti, North Carolina State Univ. (United States); Frans Snik, Leiden Observatory, Leiden Univ. (Netherlands)

[Add To My Schedule](#) 


Hi-5: a potential high-contrast thermal near-infrared imager for the VLTI

Paper 10701-13

Time: 11:20 AM - 11:40 AM

Author(s): Denis Defrère, Univ. de Liège (Belgium); Michael Ireland, The Australian National Univ. (Australia); Olivier Absil, Univ. de Liège (Belgium); Jean-Philippe Berger, Institut de Planétologie et d'Astrophysique de Grenoble (France); William Danchi, NASA Goddard Space Flight Ctr. (United States); Steve Ertel, The Univ. of Arizona (United States); Alexandre Gallenne, European Southern Observatory (Chile); Francois Hénault, Institut de Planétologie et d'Astrophysique de Grenoble (France); Phil Hinz, The Univ. of Arizona (United States); Elsa Huby, Observatoire de Paris (France); Stefan Kraus, Univ. of Exeter (United Kingdom); Lucas Labadie, Univ. zu Köln (Germany); Jean-Baptiste Le Bouquin, Institut de Planétologie et d'Astrophysique de Grenoble (France); Guillermo Martin, Institut de Planétologie et d'Astrophysique de Grenoble (France); Alexis Matter, Observatoire de la Côte d'Azur (France); Bertrand


Mennesson, Jet Propulsion Lab. (United States); Antoine Mérand, European Southern Observatory (Germany); Stefano Minardi, Univ. Potsdam (Germany); John Monnier, Univ. of Michigan (United States); Barnaby Norris, The Australian National Univ. (Australia); Gilles Orban de Xivry, Univ. de Liège (Belgium); Ettore Pedretti, Univ. Potsdam (Germany); Jörg-Uwe Pott, Max-Planck-Institut für Astronomie (Germany); Maddalena Reggiani, Univ. de Liège (Belgium); Eugene Serabyn, Jet Propulsion Lab. (United States); Jean Surdej, Univ. de Liège (Belgium); Konrad Tristram, European Southern Observatory (Chile); Julien Willez, European Southern Observatory (Germany)

[Add To My Schedule](#) 

GLINT South: a photonic nulling interferometer pathfinder at the Anglo-Australian Telescope for high contrast imaging of substellar companions
Paper 10701-14

Time: 11:40 AM - 12:00 PM

Author(s): Tiphaine Lagadec, Barnaby Norris, The Univ. of Sydney (Australia); Simon Gross, Alexander Arriola, Thomas Gretzinger, Macquarie Univ. (Australia); Nick Cvetojevic, Lab. d'Etudes Spatiales et d'Instrumentation en Astrophysique (France); Jon Lawrence, Australian Astronomical Observatory (Australia); Michael J. Withford, Macquarie Univ. (Australia); Peter Tuthill, The Univ. of Sydney (Australia)

[Add To My Schedule](#) 

Lunch Break 12:00 PM - 1:30 PM

Session 5: Techniques II

Tuesday 12 June 2018

1:30 PM - 3:00 PM

Location: CC Level 3, Room 4A/C


Session Chair: [Ellyn K. Baines](#), U.S. Naval Research Lab. (United States)

The installation and ongoing commissioning of the MATISSE mid-infrared interferometer at the ESO Very Large Telescope Observatory (*Invited Paper*)

Paper 10701-54

Time: 1:30 PM - 2:00 PM

Author(s): Bruno Lopez, Stephane Lagarde, Alexis Matter, Observatoire de la Côte d'Azur (France); Tibor Agocs, ASTRON (Netherlands); Fatme Allouche, Pierre Antonelli, Observatoire de la Côte d'Azur (France); Jean-Charles Augereau, IPAG (France); Christophe Bailet, Philippe Berio, Observatoire de la Côte d'Azur (France); Felix Bettonvil, ASTRON (Netherlands); Udo Beckmann, MPIfR (Germany); Roy van Boekel, MPA (Germany); Yves Bresson, Observatoire de la Côte d'Azur (France); Paul Bristow, ESO (Germany); Pierre Cruzalèbes, Marco Delbo, Observatoire de la Côte d'Azur (France); Carsten Dominik, University of Amsterdam (Netherlands); Eddy Elswijk, ASTRON (Netherlands); Yan Fantei-Caujolle, Observatoire de la Côte d'Azur (France); Andreas Glindemann, ESO (Germany); Matthias Heininger, Karl-Heinz Hofmann, MPIfR (Germany); Michiel Hogerheijde, Leiden University (Netherlands); Josef Hron, University of Vienna (Austria); Walter Jaffe, Leiden University (Netherlands); Gaby Kroes, ASTRON (Netherlands); Werner Laun, Michael Lehmitz, MPA (Germany); Anthony Meiland, Observatoire de la Côte d'Azur (France); Klaus Meisenheimer, MPA (Germany); Florentin Millour, Sebastien Morel, Observatoire de la Côte d'Azur (France); Udo Neumann, MPA (Germany); Eric Pantin, CEA (France); Romain Petrov, Sylvie Robbe-Dubois, Observatoire de la Côte d'Azur (France); Dieter Schertl, MPIfR (Germany); Markus Schoeller, ESO (Germany); Sebastian Wolf, Kiel University (Germany); Gerard Zins, ESO (Chile); Thomas Henning, MPA (Germany); Philippe Stee, Observatoire de la Côte d'Azur (France); Gerd Weigelt, MPIfR (Germany)


[Add To My Schedule](#) 

Implementation of an intensity interferometry system on the StarBase observatory

Paper 10701-16

Time: 2:00 PM - 2:20 PM

Author(s): Nolan Matthews, Orville Clarke, Shaun Snow, Stephan LeBohec, David B. Kieda, The Univ. of Utah (United States)


[Add To My Schedule](#) 

Stellar photon correlation detection with the Southern Connecticut stellar interferometer

Paper 10701-17

Time: 2:20 PM - 2:40 PM

Author(s): Samuel A. Weiss, Justin D. Rupert, Elliott P. Horch, Southern Connecticut State Univ. (United States)


[Add To My Schedule](#) 

Prospects for wireless optical intensity interferometry with the Southern Connecticut stellar interferometer

Paper 10701-18

Time: 2:40 PM - 3:00 PM

Author(s): Elliott P. Horch, Samuel A. Weiss, Justin D. Rupert, Ryan LaRue, Southern Connecticut State Univ. (United States); Pietro Peronio, Ivan Rech, Angelo Gulinatti, Politecnico di Milano (Italy)

[Add To My Schedule](#) 

Coffee Break 3:00 PM - 3:40 PM

Session 6: Techniques III

Tuesday 12 June 2018

3:40 PM - 4:50 PM

Location: CC Level 3, Room 4A/C


Session Chair: [Michelle J. Creech-Eakman](#), New Mexico Institute of Mining and Technology (United States)

The current state of speckle imaging (*Invited Paper*)

Paper 10701-19

Time: 3:40 PM - 4:10 PM


Author(s): Nicholas J. Scott, NASA Ames Research Ctr. (United States)

[Add To My Schedule](#) **Wide-field speckle techniques for small, urban telescopes**

Paper 10701-20

Time: 4:10 PM - 4:30 PM


Author(s): Nicole M. Granucci, Elliott P. Horch, Southern Connecticut State Univ. (United States)

[Add To My Schedule](#) **Image-plane fringe tracker for adaptive-optics assisted long baseline interferometry**

Paper 10701-21

Time: 4:30 PM - 4:50 PM

Author(s): Michael J. Ireland, The Australian National Univ. (Australia); Denis Defrère, Univ. de Liège (Belgium); Frantz Martinache, Observatoire de la Côte d'Azur (France); John Monnier, Univ. of Michigan (United States); Barnaby Norris, Peter G. Tuthill, The University of Sydney (Australia); Julien Woillez, European Southern Observatory (Germany)

[Add To My Schedule](#) 

Posters: Data processing, Analysis, Access, and Discovery

Tuesday 12 June 2018

6:00 PM - 8:00 PM

Location: CC Level 1, Exhibit Hall 2


Posters in this session may be displayed beginning at 10.00 on the designated day and will be available for extended viewing. The interactive poster session with authors in attendance will be Tuesday evening from 6:00 to 8:00 PM. Authors should remove their posters at the end of the poster session. Posters left displayed will be considered unwanted and will be discarded. :: :: Poster presentation guidelines are available [<http://spie.org/conferences-and-exhibitions/astronomical-telescopes-and-instrumentation/for-authors-and-presenters/poster-presentation-guidelines>]+{online}].

Image enhancement for the observation of the solar corona

Paper 10701-81

Time: 6:00 PM - 8:00 PM


Author(s): Mingyu Zhao, Yu Liu, Tengfei Song, Xuefei Zhang, Yunnan Observatories, Chinese Academy of Sciences (China); Masaaki Hagino, Takashi Sakurai, National Astronomical Observatory of Japan (Japan)

[Add To My Schedule](#) **Two-color speckle imaging of M-dwarfs with the Discovery Channel telescope**

Paper 10701-82

Time: 6:00 PM - 8:00 PM


Author(s): Frederick Hahne, Elliott P. Horch, Southern Connecticut State Univ. (United States); Gerard T. van Belle, Catherine Clark, Lowell Observatory (United States); Jennifer G. Winters, Harvard Univ. (United States); Todd J. Henry, RECONS Institute (United States)

[Add To My Schedule](#) **SHARK-NIR coronagraphic simulations: performance dependence on the Strehl ratio**

Paper 10701-83

Time: 6:00 PM - 8:00 PM


Author(s): Elena Carolo, INAF - Osservatorio Astronomico di Padova (Italy); Daniele Vassallo, INAF - Osservatorio Astronomico di Padova (Italy), Univ. degli Studi di Padova (Italy); Jacopo Farinato, INAF - Osservatorio Astronomico di Padova (Italy); Guido Agapito, INAF - Osservatorio Astrofisico di Arcetri (Italy); Maria Bergomi, Federico Biondi, Simonetta Chinellato, INAF - Osservatorio Astronomico di Padova (Italy); Alexis Carolotti, Institut de Planétologie et d'Astrophysique de Grenoble (France); Marco De Pascale, Marco Dima, Valentina D'Orazi, Davide Greggio, Demetrio Magrin, Luca Marafatto, Dino Mesa, INAF - Osservatorio Astronomico di Padova (Italy); Enrico Pinna, INAF - Osservatorio Astrofisico di Arcetri (Italy); Elisa Portaluri, INAF - Osservatorio Astronomico di Padova (Italy); Alfio Puglisi, INAF - Osservatorio Astrofisico di Arcetri (Italy); Roberto Ragazzoni, INAF - Osservatorio Astronomico di Padova (Italy); Marco Stangalini, INAF - Osservatorio Astronomico di Roma (Italy); Gabriele Umbricco, INAF - Osservatorio Astronomico di Padova (Italy), Univ. degli Studi di Padova (Italy); Valentina Viotto, INAF - Osservatorio Astronomico di Padova (Italy)

[Add To My Schedule](#) **The fundamentals: angular diameter measurements of zero-crossing stars from the NPOI**

Paper 10701-85

Time: 6:00 PM - 8:00 PM


Author(s): Eilyn K. Baines, U.S. Naval Research Lab. (United States); Fabien Baron, Georgia State University (United States); J. Thomas Armstrong, Henrique R. Schmitt, U.S. Naval Research Lab. (United States); James A. Benson, R. T. Zavala, U.S. Naval Observatory (United States)

[Add To My Schedule](#) **Speckle imaging of KOI binary stars with the WIYN telescope**

Paper 10701-86

Time: 6:00 PM - 8:00 PM

Author(s): Nicole M. Hess, Patrick R. Thayer, Elliott P. Horch, Southern Connecticut State Univ. (United States); James W. Davidson, Univ. of Virginia (United States); Brian W. Baptista, The Aerospace Corp. (United States); Mark E. Everett, National Optical Astronomy Observatory (United States); Steve B. Howell, NASA Ames Research Ctr. (United States)


[Add To My Schedule](#) 

Aperture synthesis imaging of colored GEO objects

Paper 10701-87

Time: 6:00 PM - 8:00 PM


Author(s): John Young, Christopher Haniff, David Buscher, Tanish Satoor, Matthew Le Maitre, Univ. of Cambridge (United Kingdom); Michelle Creech-Eakman, Ifan Payne, Magdalena Ridge Observatory (United States)

[Add To My Schedule](#) **Common spatial pattern filtering for detection of circumstellar discs**

Paper 10701-88

Time: 6:00 PM - 8:00 PM


Author(s): Jacob Shapiro, Dmitry Savransky, Cornell Univ. (United States); Jean-Baptiste Ruffio, Bruce Macintosh, Stanford Univ. (United States)

[Add To My Schedule](#) **GRAVITY deep imaging reconstruction**

Paper 10701-89

Time: 6:00 PM - 8:00 PM


Author(s): Feng Gao, Frank Eisenhauer, Oliver Pfuhl, Stefan Gillessen, Max-Planck-Institut für extraterrestrische Physik (Germany); Sylvestre Lacour, Observatoire de Paris (France)

[Add To My Schedule](#) **Detecting exoplanets and characterizing their properties with fringe nulling**

Paper 10701-90

Time: 6:00 PM - 8:00 PM

Author(s): Henrique R. Schmitt, Eilyn K. Baines, J. Thomas Armstrong, Sergio R. Restaino, U.S. Naval Research Lab. (United States)

[Add To My Schedule](#) **Optimal spectral extraction and detector characteristics for GRAVITY
(Canceled)**

Paper 10701-91

Time: 6:00 PM - 8:00 PM

Author(s):

Posters: Technologies

Tuesday 12 June 2018

6:00 PM - 8:00 PM

Location: CC Level 1, Exhibit Hall 2

Posters in this session may be displayed beginning at 10.00 on the designated day and will be available for extended viewing. The interactive poster session with authors in attendance will be Tuesday evening from 6:00 to 8:00 PM. Authors should remove their posters at the end of the poster session. Posters left displayed will be considered unwanted and will be discarded.


Poster presentation guidelines are available [online](#).

Fiber-based infrared heterodyne technology for the PFI: development of a prototype test system

Paper 10701-94

Time: 6:00 PM - 8:00 PM


Author(s): Felipe E. Besser, Nicolas Ramos, Alfredo Rates, Nicolas Ortega, Sebastian Sepulveda, Taky Parvex, Miguel Piña, Clemente Pollarolo, Ricardo E. Jara, Kevin R. Espinoza, Antonio Rodriguez, Alvaro Becerra, Pablo Martin, Martin D. Cadiz, Nestor N. Henriquez, Javier A. Carrasco, Claudia San Martin, Camila Rearte, Jose Diaz, Enrique Moreno, Ernest A. Michael, Univ. de Chile (Chile)

[Add To My Schedule](#) **Heterodyne versus direct detection: it is not over**

Paper 10701-95

Time: 6:00 PM - 8:00 PM


Author(s): Ernest A. Michael, Felipe E. Besser, Univ. de Chile (Chile)

[Add To My Schedule](#) **Beam combination schemes and technologies for the Planet Formation Imager**

Paper 10701-97

Time: 6:00 PM - 8:00 PM


Author(s): Ettore Pedretti, innoFSPEC (Germany); Romina Diener, Friedrich-Schiller-Univ. Jena (Germany); Abani Shankar Nayak, innoFSPEC (Germany), Leibniz-Institut für Astrophysik Potsdam (Germany); Jan Tepper, Lucas Labadie, I. Physikalisches Institut, Univ. zu Köln (Germany); Thomas Pertsch, Stefan Nolte, Stefano Minardi, Friedrich-Schiller-Univ. Jena (Germany)

[Add To My Schedule](#) **A large mosaic echelle grating for ESPRESSO spectrograph**

Paper 10701-98

Time: 6:00 PM - 8:00 PM

Author(s): Jean-Louis Lizon, Johannes Klaas Dekker, Antonio Ramon Manescau Hernandez, European Southern Observatory (Germany); Denis Megevan, Francesco Alfonso Pepe, Observatoire de Genève (Switzerland); Marco Riva, INAF - Osservatorio Astronomico di Brera (Italy)


[Add To My Schedule](#) 

SoC-based real-time controller for piezo-positioning using Matlab/Simulink

Paper 10701-99

Time: 6:00 PM - 8:00 PM


Author(s): Paolo Lazzarini, Electrolux Italia S.p.A. (Italy); Jean-Pierre Folcher, Univ. de Nice Sophia Antipolis (France); Sylvain Rousseau, Univ. Côte d'Azur, OCA, CNRS, Lagrange (France)

[Add To My Schedule](#) **Very accurate cryogenic mechanisms for CRIRES+**

Paper 10701-100

Time: 6:00 PM - 8:00 PM


Author(s): Jean-Louis Lizon, Barbara Klein, Ignacio Molina-Conde, European Southern Observatory (Germany); Ernesto Oliva, INAF - Osservatorio Astrofisico di Arcetri (Italy); Guillem Anglada-Escudé, Univ. Göttingen (Germany); Paul Bristow, Reinhold Dorn, European Southern Observatory (Germany); Roman Follert, Artie Hatzes, Thüringer Landessternwarte Tautenburg (Germany); Ulrike Heiter, Uppsala Univ. (Sweden); Derek Ives, Yves Jung, European Southern Observatory (Germany); Matt Lockhart, European Organisation for Astronomical Research in the Southern Hemisphere (Sweden); Thomas Marquart, Uppsala Univ. (Sweden); Livia Origlia, l'Osservatorio di astrofisica e scienza dello spazio di Bologna (Italy); Luca Pasquini, Jérôme Pauflique, European Southern Observatory (Germany); Nikolai Pistunov, Uppsala Univ. (Sweden); Ansgar Reiners, Georg-August-Univ. Göttingen (Germany); Alain Smette, Jonathan Smoker, European Southern Observatory (Chile); Ulf Seemann, Georg-August-Univ. Göttingen (Germany); Eric Stempels, Uppsala Univ. (Sweden); Elena Valenti, European Southern Observatory (Germany)

[Add To My Schedule](#) **Time tagging individual photons with a low-cost FPGA based time to digital converter**

Paper 10701-102

Time: 6:00 PM - 8:00 PM


Author(s): Genady Pilyavsky, Adrian Sinclair, Eric Weeks, Caleb Wheeler, Emily Lunde, Philip Mauskopf, Arizona State Univ. (United States)

[Add To My Schedule](#) **First results on an electro-optic visible multi-telescope beam combiner for next generation FIRST/SUBARU instruments**

Paper 10701-104

Time: 6:00 PM - 8:00 PM


Author(s): Guillermo Martin, Institut de Planétologie et d'Astrophysique de Grenoble (France); Florent Gardillou, Cedric Cassagnettes, Denis Barbier, Teem Photonics (France); Clement Guyot, Jérôme Hauden, iXBlue Photonics (France); G. Ulliac, FEMTO-ST, Univ. Franche-Comté (France); Nadège Courjal, FEMTO-ST (France); Nick Cvetojevic, Elsa Huby, Sylvestre Lacour, Observatoire de Paris (France)

[Add To My Schedule](#) **Speckle imaging through a coherent fiber bundle**

Paper 10701-105

Time: 6:00 PM - 8:00 PM

Author(s): James W. Davidson, University of Virginia (United States); Elliott P. Horch, Southern Connecticut State University (United States); Steven R. Majewski, University of Virginia (United States)

[Add To My Schedule](#) 

WEDNESDAY 13 JUNE[Show All Abstracts](#)

Wednesday Plenary Session

Wednesday 13 June 2018

9:00 AM - 10:00 AM

Location: CC Level 1, Ballroom A

Coffee Break 10:00 AM - 10:30 AM

**Session 7:
Future of Interferometry I**

Wednesday 13 June 2018

10:30 AM - 12:30 PM

Location: CC Level 3, Room 4A/C

Session Chair: [Fabien Malbet](#), Institut de Planétologie et d'Astrophysique de Grenoble (France)

High-angular resolution imaging of massive stars *(Invited Paper)***(Canceled)**

Paper 10701-22

Time: 10:30 AM - 11:00 AM


Author(s):

The VLTI roadmap for the next decade *(Invited Paper)*

Paper 10701-23

Time: 11:00 AM - 11:30 AM

Author(s): Antoine Mérand, European Southern Observatory (Chile)


[Add To My Schedule](#) 

Prospects for exoplanet science with the Hi-5 interferometer

Paper 10701-24

Time: 11:30 AM - 11:50 AM

Author(s): Thibault Boulet, Denis Defrère, Olivier Absil, Univ. de Liège (Belgium); Jean-Philippe Berger, Institut de Planétologie et d'Astrophysique de Grenoble (France); Stefan Kraus, Univ. of Exeter (United Kingdom); Michael Ireland, The Australian National Univ. (Australia); Maddalena Reggiani, Univ. de Liège (Belgium)


[Add To My Schedule](#) 

A six-apertures discrete beam combiners for J-band interferometry

Paper 10701-25

Time: 11:50 AM - 12:10 PM

Author(s): Ettore Pedretti, Leibniz-Institut für Astrophysik Potsdam (Germany); Simone Piacentini, Politecnico di Milano (Italy); Giacomo Corrielli, CNR-Istituto di Fotonica e Nanotecnologie (Italy); Roberto Osellame, Politecnico di Milano (Italy); Stefano Minardi, Leibniz-Institut für Astrophysik Potsdam (Germany)


[Add To My Schedule](#) 

P-REx: the AO fed piston reconstruction experiment

Paper 10701-26

Time: 12:10 PM - 12:30 PM

Author(s): Jörg-Uwe Pott, Max-Planck-Institut für Astronomie (Germany); Felix Widmann, Max-Planck-Institut für extraterrestrische Physik (Germany); Martin Glück, Institute for System Dynamics, Univ. Stuttgart (Germany)

[Add To My Schedule](#) 

Lunch Break 12:30 PM - 2:00 PM

Session 8: Future of Interferometry II

Wednesday 13 June 2018

2:00 PM - 3:30 PM

Location: CC Level 3, Room 4A/C


Session Chair: [Jean-Philippe Berger](#), European Southern Observatory (Chile)

Planet formation imager: project update (Invited Paper)

Paper 10701-27

Time: 2:00 PM - 2:30 PM

Author(s): John D. Monnier, Univ. of Michigan (United States); Michael Ireland, The Australian National Univ. (Australia); Stefan Kraus, Univ. of Exeter (United Kingdom); Almudena Alonso-Herrero, Centro de Astrobiología (CSIC-INTA) (Spain); Amy Bonsor, Univ. of Cambridge (United Kingdom); Fabien Baron, Georgia State Univ. (United States); Amelia Bayo, Univ. de Valparaíso (Chile), Nucleo Milenio Formacion Planetaria (NPF) (Chile); Jean-Philippe Berger, Institut de Planétologie et d'Astrophysique de Grenoble (France); Tabettha Boyajian, Louisiana State Univ. (United States); Andrea Chiavassa, Observatoire de la Côte d'Azur (France); David Ciardi, Infrared Processing and Analysis Ctr. (United States); Michelle Creech-Eakman, New Mexico Institute of Mining and Technology (United States); Willem-Jan de Wit, European Southern Observatory (Chile); Denis Defrère, Univ. de Liège (Belgium); Ruobing Dong, The Univ. of Arizona (United States); Gaspard Duchêne, Univ. of California (United States), Univ. Grenoble Alpes (France); Catherine Espaillat, Boston Univ. (United States); Alexandre Gallenne, European Southern Observatory (Chile); Poshak Gandhi, Univ. of Southampton (United Kingdom); Jean-Francois Gonzalez, Univ. de Lyon (France); Chris Haniff, Univ. of Cambridge (United Kingdom); Sebastian Hoenig, Univ. of Southampton (United Kingdom); John Ilee, Univ. of Cambridge (United Kingdom); Andrea Isella, Rice Univ. (United States); Eric Jensen, Swarthmore College (United States); Attila Juhasz, Univ. of Cambridge (United Kingdom); Stephen Kane, Univ. of California, Riverside (United States); Makoto Kishimoto, Kyoto Sangyo Univ. (Japan); Wilhelm Kley, Eberhard Karls Univ. Tübingen (Germany); Quentin Kral, Univ. of Cambridge (United Kingdom); Kaitlin Kratter, The Univ. of Arizona (United States); Lucas Labadie, Univ. zu Köln (Germany); Sylvestre Lacour, Observatoire de Paris (France); Greg Laughlin, Yale Univ. (United States); Jean-Baptiste Le Bouquin, Institut de Planétologie et d'Astrophysique de Grenoble (France); Ernest Michael, Univ. de Chile (Chile); Farzana Meru, Univ. of Cambridge (United Kingdom); Rafael Millan-Gabet, GMTO Corp. (United States); Florentin Millour, Observatoire de la Côte d'Azur (France); Stefano Minardi, Institute of Applied Physics, Friedrich-Schiller-Univ. Jena (Germany); Alessandro Morbidelli, Observatoire de la Côte d'Azur (France); Chris Mordasini, Univ. Bern (Switzerland); Andreas Morlok, Westfälische Wilhelms-Univ. Münster (Germany); Dave Mozurkewich, Seabrook Engineering (United States); Richard Nelson, Queen Mary Univ. of London (United Kingdom); Johan Olofsson, Univ. de Valparaíso (Chile), Nucleo Milenio Formacion Planetaria (NPF) (Chile); Rene Oudmaijer, Univ. of Leeds (United Kingdom); Chris Packham, The Univ. of Texas at San Antonio (United States); Claudia Paladini, Univ. Libre de Bruxelles (Belgium); Olja Panic, Univ. of Leeds (United Kingdom); Romain Petrov, Observatoire de la Côte d'Azur (France); Benjamin Pope, New York Univ. (United States); Joerg-Uwe Pott, Max-Planck-Institut für Astronomie (Germany); Luis Henry Quiroga-Nuñez, Leiden Univ. (Netherlands); Cristina Ramos Almeida, Instituto de Astrofísica de Canarias (Spain); Sean Raymond, Lab. d'Astrophysique de Bordeaux (France); Zsolt Regaly, Konkoly Observatory (Hungary); Mark Reynolds, Univ. of Michigan (United States); Stephen Ridgway, National Optical Astronomy Observatory (United States); Stephen Rinehart, NASA Goddard Space Flight Ctr. (United States); Matthias Schreiber, Univ. de Valparaíso (Chile), Nucleo Milenio Formacion Planetaria (NPF) (Chile); Michael Smith, Univ. of Kent (United Kingdom); Keivan Stassun, Vanderbilt Univ. (United States); Jean Surdej, Univ. de Liège (Belgium); Theo ten Brummelaar, Georgia State Univ. (United States); Konrad Tristram, European Southern Observatory (Chile); Neal Turner, Jet Propulsion Lab. (United States); Peter Tuthill, The Univ. of Sydney (Australia); Gerard T. van Belle, Lowell Observatory (United States); Gautum Vasisht, Jet Propulsion Lab. (United States); Alexander Wallace, The Australian National Univ. (Australia); Gerd Weigelt, Max-Planck-Institut für Radioastronomie (Germany); Edward Wishnow, Space Sciences Lab. (United States); Markus Wittkowski, European Southern Observatory (Germany); Sebastian Wolf, Christian-Albrechts-Univ. zu Kiel (Germany); John Young, Univ. of Cambridge (United Kingdom); Ming Zhao, The New York Times Co. (United States); Zhaohuan Zhu, Univ. of Nevada, Las Vegas (United States); Sebastia'n Z'ui'-niga-Fern'andez, Univ. de Valparaíso (Chile), Nucleo Milenio Formacion Planetaria (NPF) (Chile)

[Add To My Schedule](#) 


A three-telescope active integrated optics spectro-interferometric combiner in the L-band for application to high precision interferometry

Paper 10701-28

Time: 2:30 PM - 2:50 PM

Author(s): Guillermo Martin, Institut de Planétologie et d'Astrophysique de Grenoble (France); I. Heras, Univ. Grenoble Alpes, CNRS, Institut de Planétologie et d'Astrophysique de Grenoble (Spain); Samuel Heidmann, Institut de Planétologie et d'Astrophysique de Grenoble (France); Gwenn Ulliac, Nadège Courjal,

FEMTO-ST (France); Alain Morand, MINATEC (France); P. Benech, CNRS/INP/UJF/US, IMEP-LAHC (France); E. Le Coarer, Univ. Grenoble Alpes, CNRS, Institut de Planétologie et d'Astrophysique de Grenoble (France); Jean-Philippe Berger, Institut de Planétologie et d'Astrophysique de Grenoble (France)

[Add To My Schedule](#) 

The 4 apertures prototype of an hierarchical fringe tracker

(Canceled)

Paper 10701-29

Time: 2:50 PM - 3:10 PM


Author(s):

Photonics-based mid-infrared interferometry: the challenges of polychromatic operation and comparative performances

Paper 10701-30

Time: 3:10 PM - 3:30 PM

Author(s): Jan Tepper, Univ. zu Köln (Germany); Romina Diener, Institut für Angewandte Physik, Friedrich-Schiller-Univ. Jena (Germany); Lucas Labadie, Univ. zu Köln (Germany); Stefano Minardi, Institut für Angewandte Physik, Friedrich-Schiller-Univ. Jena (Germany), innoFSPEC, Leibniz-Institut für Astrophysik Potsdam (Germany); Simon Gross, Ctr. for Ultrahigh bandwidth Devices for Optical Systems, Macquarie Univ. (Australia); Alexander Arriola, Michael Withford, Ctr. for Ultrahigh bandwidth Devices for Optical Systems (Australia); Stefan Nolte, Institut für Angewandte Physik, Friedrich-Schiller-Univ. Jena (Germany)

[Add To My Schedule](#) 

Coffee Break 3:30 PM - 4:00 PM

Session 9: Data Processing I

Wednesday 13 June 2018

4:00 PM - 5:30 PM

Location: CC Level 3, Room 4A/C


Session Chair: Konrad R. W. Tristram, European Southern Observatory (Chile)

Synergy between radio and optical interferometry: image reconstruction, calibration and data analysis (Invited Paper)

Paper 10701-31

Time: 4:00 PM - 4:30 PM

Author(s): Urvasi Rau, National Radio Astronomy Observatory (United States)


[Add To My Schedule](#) 

Comparing non-redundant masking and filled-aperture kernel phase for exoplanet detection and characterization

Paper 10701-32

Time: 4:30 PM - 4:50 PM

Author(s): Stephanie Sallum, Andy Skemer, Univ. of California, Santa Cruz (United States)

[Add To My Schedule](#) 

Photonic mid-infrared nulling for exoplanet detection on a planar chalcogenide platform

Paper 10701-33

Time: 4:50 PM - 5:10 PM

Author(s): Harry-Dean Kenchington Goldsmith, Michael Ireland, Pan Ma, Barry Luther-Davies, The Australian National Univ. (Australia); Rongping Wang, Ningbo Univ. (China); Barnaby Noris, Peter Tuthill, Sydney Institute for Astronomy (SIfA) (Australia); Stephen Madden, The Australian National Univ. (Australia)


[Add To My Schedule](#) 

Data reduction of the VLTI/GRAVITY interferometric instrument (Conference Presentation)

Paper 10701-34

Time: 5:10 PM - 5:30 PM

Author(s): Vincent Lapeyrière, Pierre Kervella, Observatoire de Paris (France), Univ. de recherche Paris Sciences et Lettres (France), UPMC Sorbonne Univ. (France); Jean-Baptiste Le Bouquin, Institut de Planétologie et d'Astrophysique de Grenoble (France); Sylvestre Lacour, Observatoire de Paris (France), Univ. de recherche Paris Sciences et Lettres (France), UPMC Sorbonne Univ. (France); Cesar Enrique Garcia-Dabó, Antoine Mérand, Julien Woillez, European Southern Observatory (Germany); Guy Perrin, Observatoire de Paris (France), Univ. de recherche Paris Sciences et Lettres (France), UPMC Sorbonne Univ. (France); Frank Eisenhauer, Max-Planck-Institut für extraterrestrische Physik (Germany); Karine Perraut, Institut de Planétologie et d'Astrophysique de Grenoble (France); Christian Straubmeier, Univ. zu Köln (Germany); António Amorim, Univ. de Lisboa (Portugal); Wolfgang Brandner, Max-Planck-Institut für Astronomie (Germany)

[Add To My Schedule](#) 

THURSDAY 14 JUNE

[Show All Abstracts](#)

Thursday Plenary Session

Thursday 14 June 2018

8:30 AM - 10:00 AM

Location: CC Level 1, Ballroom A

Coffee Break 10:00 AM - 10:30 AM

Session 10: Space Interferometry

Thursday 14 June 2018
10:30 AM - 12:20 PM
Location: CC Level 3, Room 4A/C


Session Chair: [Elliott P. Horch](#), Southern Connecticut State Univ. (United States)

A dispersive backend design for the 'double-Fourier' interferometer BETTII (*Invited Paper*)

Paper 10701-35

Time: 10:30 AM - 11:00 AM

Author(s): Arnab Dhabal, Univ. of Maryland, College Park (United States), NASA Goddard Space Flight Ctr. (United States); Stephen A. Rinehart, Eric Mentzell, Maxime J. Rizzo, NASA Goddard Space Flight Ctr. (United States); Lee Mundy, Univ. of Maryland, College Park (United States); Dale J. Fixsen, NASA Goddard Space Flight Ctr. (United States), Univ. of Maryland, College Park (United States); Todd J. Veach, Southwest Research Institute (United States), NASA Goddard Space Flight Ctr. (United States); Roser Juanola-Parramon, Jordi Vila Hernández de Lorenzo, NASA Goddard Space Flight Ctr. (United States)


[Add To My Schedule](#) 

Characterizing the atmosphere of Proxima b with a space-based mid-infrared nulling interferometer

Paper 10701-36

Time: 11:00 AM - 11:20 AM

Author(s): Denis Defrère, Univ. de Liège (Belgium); Alain Léger, Univ. Paris-Saclay (France); Olivier Absil, Univ. de Liège (Belgium); Antonio García Muñoz, Technische Univ. Berlin (Germany); Lee Grenfell, Marieke Godolt, Institut für Planetenforschung, Deutsches Zentrum für Luft- und Raumfahrt e.V. (Germany); Jérôme Loicq, Univ. de Liège (Belgium); Jens Kammerer, The Univ. of Sydney (Australia); Sascha P. Quanz, ETH Zurich (Switzerland); Heike Rauer, Institut für Planetenforschung, Deutsches Zentrum für Luft- und Raumfahrt e.V. (Germany); Luca Schifano, Univ. de Liège (Belgium); Feng Tian, Tsinghua Univ. (China)


[Add To My Schedule](#) 

Exoplanet science with a space-based mid-infrared nulling interferometer

Paper 10701-37

Time: 11:20 AM - 11:40 AM

Author(s): Sascha P. Quanz, ETH Zurich (Switzerland); Jens Kammerer, The Australian National Univ. (Australia); Denis Defrère, Olivier Absil, Univ. de Liège (Belgium); Adrian Glauser, ETH Zurich (Switzerland); Daniel Kitzmann, Univ. Bern (Switzerland)


[Add To My Schedule](#) 

The TOLIMAN space telescope

Paper 10701-38

Time: 11:40 AM - 12:00 PM

Author(s): Peter G. Tuthill, The Univ. of Sydney (Australia); Eduardo Bendek, NASA Ames Research Ctr. (United States); Olivier Guyon, National Astronomical Observatory of Japan (United States); Anthony Horton, Australian Astronomical Observatory (Australia); Bryn Jeffries, The Univ. of Sydney (Australia); Nemanja Jovanovic, Caltech (United States); Pete Klupar, Breakthrough Prize Foundation (United States); Kieran Larkin, Nontrivialzeros Research (Australia); Barnaby Norris, The Univ. of Sydney (Australia); Ben Pope, Flatiron Institute, Simons Foundation (United States); Michael Shao, Jet Propulsion Lab. (United States)


[Add To My Schedule](#) 

The wide-field spatio-spectral interferometer: system overview, data synthesis and analysis

Paper 10701-39

Time: 12:00 PM - 12:20 PM

Author(s): Roser Juanola-Parramon, NASA Goddard Space Flight Ctr. (United States); Alex Iacchetta, Univ. of Rochester (United States); David Leisawitz, Matthew Bolcar, Stephen Maher, Stephen Rinehart, NASA Goddard Space Flight Ctr. (United States)

[Add To My Schedule](#) 

Lunch Break 12:20 PM - 1:40 PM

Session 11: Data Processing II

Thursday 14 June 2018
1:40 PM - 3:40 PM
Location: CC Level 3, Room 4A/C


Session Chair: [John S. Young](#), Univ. of Cambridge (United Kingdom)

Protoplanetary environments at the astronomical unit scale: the contribution of long baseline interferometry (*Invited Paper*)

Paper 10701-40

Time: 1:40 PM - 2:10 PM

Author(s): Jean-Philippe Berger, Institut de Planétologie et d'Astrophysique de Grenoble (France), Univ. Grenoble Alpes (France), Ctr. National de la Recherche Scientifique (France)


[Add To My Schedule](#) 

A two-band approach to $n\lambda$ phase error corrections with LBTI's PHASECam

Paper 10701-41

Time: 2:10 PM - 2:30 PM

Author(s): Erin Maier, Philip Hinz, The Univ. of Arizona (United States); Denis Defrère, Space Sciences, Technologies, and Astrophysics Research Institute, Univ. de Liège (Belgium); Steve Ertel, Elwood Downey, The Univ. of Arizona (United States)


[Add To My Schedule](#) 

Correction of differential chromatic dispersion in GRAVITY

Paper 10701-79

Time: 2:30 PM - 2:50 PM

Author(s): Xavier Haubois, European Southern Observatory (Chile); Sylvestre Lacour, Guy Perrin, Observatoire de Paris (France); Roderick Dembet, European Southern Observatory (Germany); Jean-Baptiste Le Bouquin, Institut de Planétologie et d'Astrophysique de Grenoble (France); Vincent Lapeyrère, Observatoire de Paris (France); Burkhard Wolff, Frank Eisenhauer, European Southern Observatory (Germany); Karine Rousselet-Perrault, Institut de Planétologie et d'Astrophysique de Grenoble (France); Christian Straubmeier, I. Physikalisches Institut, Univ. zu Köln (Germany); António Amorim, Faculdade de Ciências da Univ. de Lisboa (Portugal); Wolfgang Brandner, Max-Planck-Institut für Astronomie (Germany)


[Add To My Schedule](#) 

Coherent integration: theory and practice

Paper 10701-43

Time: 2:50 PM - 3:10 PM

Author(s): David Mozurkewich, Seabrook Engineering (United States); Anders M. Jorgensen, New Mexico Institute of Mining and Technology (United States)


[Add To My Schedule](#) 

Panel discussion: next steps for OIFITS (Invited Paper)

Paper 10701-44

Time: 3:10 PM - 3:40 PM

Author(s): John Young, Univ. of Cambridge (United Kingdom); Michael Ireland, Australian National University (Australia); Xavier Haubois, European Southern Observatory (Germany)

[Add To My Schedule](#) 

Coffee Break 3:40 PM - 4:00 PM

Session 12: Technologies I

Thursday 14 June 2018

4:00 PM - 5:30 PM

Location: CC Level 3, Room 4A/C


Session Chair: Takayuki Kotani, National Astronomical Observatory of Japan (Japan)

Astrophotonic interferometry: coherently moulding the flow of starlight (Invited Paper)

Paper 10701-45

Time: 4:00 PM - 4:30 PM

Author(s): Barnaby Norris, The Univ. of Sydney (Australia)


[Add To My Schedule](#) 

Photonics-based mid-infrared interferometry: 4-year results of the ALSI project and future prospects

Paper 10701-46

Time: 4:30 PM - 4:50 PM

Author(s): Lucas Labadie, I. Physikalisches Institut, Univ. zu Köln (Germany); Stefano Minardi, innoFSPEC (Germany), Leibniz-Institut für Astrophysik Potsdam (Germany); Jan Tepper, I. Physikalisches Institut, Univ. zu Köln (Germany); Romina Diener, Institut für Angewandte Physik, Friedrich-Schiller-Univ. Jena (Germany), Abbe Ctr. of Photonics, Friedrich-Schiller-Univ. Jena (Germany); Balaji Muthusubramanian, I. Physikalisches Institut, Univ. zu Köln (Germany); Jörg-Uwe Pott, Max-Planck-Institut für Astronomie (Germany); Stefan Nolte, Institut für Angewandte Physik, Friedrich-Schiller-Univ. Jena (Germany), Abbe Ctr. of Photonics, Friedrich-Schiller-Univ. Jena (Germany); Simon Gross, Alexander Arriola, Michael Withford, Ctr. for Ultrahigh bandwidth Devices for Optical Systems, Macquarie Univ. (Australia)


[Add To My Schedule](#) 

Visible and near-infrared multilayer arrayed waveguide gratings: a novel approach for spectro-interferometry

Paper 10701-47

Time: 4:50 PM - 5:10 PM

Author(s): Glen Douglass, Alexander Arriola, Simon Gross, Michael Withford, Macquarie Univ. (Australia); Etienne Le Coarer, Guillermo Martin, Institut de Planétologie et d'Astrophysique de Grenoble (France)


[Add To My Schedule](#) 

Staring at stars makes you see spots: verifying images of red supergiant stars

Paper 10701-48

Time: 5:10 PM - 5:30 PM

Author(s): Ryan Norris, Fabien Baron, Georgia State Univ. (United States)

[Add To My Schedule](#) 

Imaging Beauty Contest Winners

Thursday 14 June 2018

5:30 PM - 5:45 PM


Location: CC Level 3, Room 4A/C

Optical interferometry image reconstruction contest VIII

Paper 10701-103

Time: 5:30 PM - 5:45 PM

Author(s): Antoine M erand, European Southern Observatory (Germany); Antxon Alberdid, IAA-CSIC (Spain); Jacques Kluska, Instituut voor Sterrenkunde Celestijnenlaan (Belgium); Isabelle Tallon-Bosc, Michel Tallon, Eric Thi ebaut, Univ Lyon, Univ Lyon1, Ens de Lyon, CNRS, Centre de Recherche Astrophysique de Lyon UMR5574 (France); Joen S anchez-Bermudez, European Southern Observatory (Chile); Rainer Sch odel, IAA-CSIC (Spain); Ferr eol Soulez, Univ Lyon, Univ Lyon1, Ens de Lyon, CNRS, Centre de Recherche Astrophysique de Lyon UMR5574 (France); John Young, Cavendish Laboratory, Cambridge University (United Kingdom)

[Add To My Schedule](#) 

FRIDAY 15 JUNE

[Show All Abstracts](#)**Session 13:
Technologies II**

Friday 15 June 2018

8:30 AM - 10:10 AM


Location: CC Level 3, Room 4A/C

Session Chair: [Lucas Labadie](#), Univ. zu K oln (Germany)**The success of extragalactic infrared interferometry: from what we have learned to what to expect** (*Invited Paper*)

Paper 10701-49

Time: 8:30 AM - 9:00 AM


Author(s): Konrad R. W. Tristram, European Southern Observatory (Chile); Sebastian F. H onig, Univ. of Southampton (United Kingdom)

[Add To My Schedule](#) **Improving angular resolution of telescopes through probabilistic single-photon amplification?** (*Invited Paper*)

Paper 10701-50

Time: 9:00 AM - 9:30 AM


Author(s): Aglae Kellerer, European Southern Observatory (Germany); Petr Marek, Palack y Univ. Olomouc (Czech Republic); Sylvestre Lacour, Observatoire de Paris   Meudon (France)

[Add To My Schedule](#) **Fiber-based infrared heterodyne technology for the PFI: on the possibility of breaking the noise temperature quantum limit with cross-correlation**

Paper 10701-51

Time: 9:30 AM - 9:50 AM


Author(s): Ernest A. Michael, Felipe E. Besser, Univ. de Chile (Chile)

[Add To My Schedule](#) **Learnings from the use of fiber optics in GRAVITY**

Paper 10701-52

Time: 9:50 AM - 10:10 AM

Author(s): Magdalena Lippa, Stefan Gillessen, Max-Planck-Institut f ur extraterrestrische Physik (Germany); Nicolas Blind, Univ. de Gen eve (Switzerland); Yitping Kok, The Univ. of Western Australia (Australia); Karine Perraut, Laurent Jocou, Institut de Plan etologie et d'Astrophysique de Grenoble (France); Frank Eisenhauer, Oliver Pfuhl, Max-Planck-Institut f ur extraterrestrische Physik (Germany); Marcus Haug, European Southern Observatory (Germany); Stefan Kellner, Frank Haussmann, Markus Plattner, Christian Rau, Oliver Hans, Ekkehard Wieprecht, Thomas Ott, Erich Wiezorek, Eckhard Sturm, Alexander Buron, Sylvestre Lacour, Reinhard Genzel, Max-Planck-Institut f ur extraterrestrische Physik (Germany); Guy Perrin, Observatoire de Paris (France); Wolfgang Brandner, Max-Planck-Institut f ur Astronomie (Germany); Christian Straubmeier, Univ. zu K oln (Germany); Ant onio Amorim, Faculdade de Ci ncias da Univ. de Lisboa (Portugal)

[Add To My Schedule](#) **Coffee Break 10:10 AM - 10:40 AM****Session 14:
Critical Subsystems**

Friday 15 June 2018

10:40 AM - 12:10 PM

Location: CC Level 3, Room 4A/C


Session Chair: [Antoine M erand](#), European Southern Observatory (Chile)**GRAVITY: a new era for optical interferometry** (*Invited Paper*)

Paper 10701-53

Time: 10:40 AM - 11:10 AM

Author(s): Roberto Abuter, Matteo Accardo, European Southern Observatory (Germany); Ant onio Amorim, Centro Multidisciplinar de Astrof sica, CENTRA (SIM), FCUL and FEUP (Portugal); Narsireddy Anugu, Ctr. Multidisciplinar de Astrof sica (Portugal); Gerardo  vila, European Southern Observatory (Germany); Myriam Benisty, Univ. Grenoble Alpes (France); Jean-Philippe Berger, Univ. Grenoble Alpes, IPAG (France); Nicolas Blind, Observatoire de Gen eve, Universit  de Gen eve (Switzerland); Henri Bonnet, Pierre Bourget, European Southern Observatory (Germany); Wolfgang Brandner, Max-Planck-Institut f ur Astronomie (Germany); Roland Brast, European Southern Observatory (Germany); Alexander Buron, Max-Planck-Institut f ur extraterrestrische Physik (Germany); Fr ed eric Cassaing, ONERA, The French Aerospace Lab (France); Fr ed eric Chapron,  lodie Choquet, Yann Cl enet, Claude Collin, Vincent

Coudé du Foresto, Observatoire de Paris, LESIA (France); Willem-Jan de Wit, European Southern Observatory (Germany); Tim de Zeeuw, Casey Deen, Max-Planck-Institut für extraterrestrische Physik (Germany); Françoise Delplanck-Ströbele, European Southern Observatory (Germany); Roderick Dombet, Observatoire de Paris, LESIA (France); Frédéric Derie, European Southern Observatory (Germany); Jason Dexter, Max-Planck-Institut für extraterrestrische Physik (Germany); Gilles Duvert, Univ. Grenoble Alpes, IPAG (France); Monica Ebert, Max-Planck-Institut für Astronomie (Germany); Andreas Eckart, I. Physikalisches Institut, Universität zu Köln (Germany); Frank Eisenhauer, Max-Planck-Institut für extraterrestrische Physik (Germany); Michael Esselborn, European Southern Observatory (Germany); Pierre Fédou, Observatoire de Paris, LESIA (France); Gert Finger, European Southern Observatory (Germany); Paulo Garcia, Centro Multidisciplinar de Astrofísica, CENTRA (SIM) (Portugal); Cesar Enrique Garcia Dabo, European Southern Observatory (Germany); Rebecca García López, Max-Planck-Institut für Astronomie (Germany); Feng Gao, Max-Planck-Institut für extraterrestrische Physik (Germany); Eric Gendron, Observatoire de Paris, LESIA (France); Reinhard Genzel, Stefan Gillessen, Max-Planck-Institut für extraterrestrische Physik (Germany); Frédéric Gonté, European Southern Observatory (Germany); Paulo Gordo, Centro Multidisciplinar de Astrofísica, CENTRA (SIM), FCUL and FEUP (Portugal); Marion Grould, Observatoire de Paris, LESIA (France); Ulrich Grözinger, Max-Planck-Institut für Astronomie (Germany); Sylvain Guieu, Univ. Grenoble Alpes, IPAG (France); Pierre Haguenaer, European Southern Observatory (Germany); Oliver Hans, Max-Planck-Institut für extraterrestrische Physik (Germany); Xavier Haubois, European Southern Observatory (Germany); Marcus Haug, Frank Haussmann, Max-Planck-Institut für extraterrestrische Physik (Germany); Thomas Henning, Stefan Hippler, Max-Planck-Institut für Astronomie (Germany); Matthew Horrobin, I. Physikalisches Institut, Universität zu Köln (Germany); Armin Huber, Max-Planck-Institut für Astronomie (Germany); Zoltan Hubert, Observatoire de Paris, LESIA (France); Norbert Hubin, Christian Hummel, Gerd Jakob, European Southern Observatory (Germany); Alejandra Jimenez-Rosales, Max-Planck-Institut für extraterrestrische Physik (Germany); Lieselotte Jochum, European Southern Observatory (Germany); Laurent Jocou, Univ. Grenoble Alpes, IPAG (France); Martina Karl, Max-Planck-Institut für extraterrestrische Physik (Germany); Andreas Kaufer, European Southern Observatory (Germany); Stefan Kellner, Max-Planck-Institut für extraterrestrische Physik (Germany); Sarah Kendrew, European Space Agency (United States); Lothar Kern, European Southern Observatory (Germany); Pierre Kervella, Observatoire de Paris, LESIA (France); Mario Kieckebusch, European Southern Observatory (Germany); Ralf Klein, Max-Planck-Institut für Astronomie (Germany); Johann Kolb, European Southern Observatory (Germany); Martin Kulas, Max-Planck-Institut für Astronomie (Germany); Sylvestre Lacour, Vincent Lapeyrière, Observatoire de Paris, LESIA (France); Bernard Lazareff, Univ. Grenoble Alpes, IPAG (France); Jean-Baptiste Le Bouquin, Univ. Grenoble Alpes, IAPG (France); Pierre Léna, Observatoire de Paris, LESIA (France); Rainer Lenzen, Max-Planck-Institut für Astronomie (Germany); Samuel Lévêque, European Southern Observatory (Germany); Magdalena Lippa, Max-Planck-Institut für extraterrestrische Physik (Germany); Yves Magnard, Univ. Grenoble Alpes, IPAG (France); Leander Mehrgan, European Southern Observatory (Germany); Marcus Mellein, Max-Planck-Institut für Astronomie (Germany); Antoine Mérand, European Southern Observatory (Germany); Javier Moreno Ventas, Max-Planck-Institut für Astronomie (Germany); Thibaut Moulin, Univ. Grenoble Alpes, IPAG (France); Eric Müller, Friedrich Müller, Udo Neumann, Max-Planck-Institut für Astronomie (Germany); Sylvain Oberti, European Southern Observatory (Germany); Thomas Ott, Max-Planck-Institut für extraterrestrische Physik (Germany); Laurent Pallanca, European Southern Observatory (Germany); Johana Panduro, Max-Planck-Institut für Astronomie (Germany); Luca Pasquini, European Southern Observatory (Germany); Thibaut Paumard, Observatoire de Paris, LESIA (France); Isabelle Percheron, European Southern Observatory (Germany); Karine Perraut, Univ. Grenoble Alpes, IAPG (France); Guy Perrin, Observatoire de Paris, LESIA (France); Pierre-Olivier Petrucci, Univ. Grenoble Alpes, IPAG (France); Andreas Pflüger, Oliver Pfuhl, Max-Planck-Institut für extraterrestrische Physik (Germany); Thanh Phan Duc, European Southern Observatory (Germany); Philipp M. Plewa, Max-Planck-Institut für extraterrestrische Physik (Germany); Dan Popović, European Southern Observatory (Germany); Sebastian Rabien, Max-Planck-Institut für extraterrestrische Physik (Germany); Andrés Ramírez, European Southern Observatory (Germany); Jose Ricardo Ramos, Max-Planck-Institut für Astronomie (Germany); Christian Rau, Max-Planck-Institut für extraterrestrische Physik (Germany); Miguel Riquelme, European Southern Observatory (Germany); Gustavo Rodriguez-Coira, Observatoire de Paris, LESIA (France); Ralf-Rainer Rohloff, Max-Planck-Institut für Astronomie (Germany); Gérard Rousset, Observatoire de Paris, LESIA (France); Joel Sanchez-Bermudez, Silvia Scheithauer, Max-Planck-Institut für Astronomie (Germany); Markus Schoeller, Nicolas Schuhler, Jason Spyromilio, European Southern Observatory (Germany); Odèle Straub, Observatoire de Paris, LESIA (France); Christian Straubmeier, I. Physikalisches Institut, Universität zu Köln (Germany); Eckhard Sturm, Max-Planck-Institut für extraterrestrische Physik (Germany); Marcos Suarez, Konrad Tristram, European Southern Observatory (Germany); Noel Ventura, Univ. Grenoble Alpes, IPAG (France); Frédéric Vincent, Observatoire de Paris, LESIA (France); Idel Waisberg, Max-Planck-Institut für extraterrestrische Physik (Germany); Imke Wank, I. Physikalisches Institut, Universität zu Köln (Germany); Felix Widmann, Ekkehard Wieprecht, Max-Planck-Institut für extraterrestrische Physik (Germany); Michael Wiest, I. Physikalisches Institut, Universität zu Köln (Germany); Erich Wiezorrek, Max-Planck-Institut für extraterrestrische Physik (Germany); Markus Wittkowski, Julien Woillez, Burkhard Wolff, European Southern Observatory (Germany); Senol Yazici, Max-Planck-Institut für extraterrestrische Physik (Germany); Denis Ziegler, Observatoire de Paris, LESIA (France); Gérard Zins, European Southern Observatory (Germany)


[Add To My Schedule](#) 

Intensity interferometry revival on the Côte d'Azur (Invited Paper)

Paper 10701-15

Time: 11:10 AM - 11:40 AM

Author(s): Olivier Lai, Université Côte d'Azur, Observatoire de la Côte d'Azur, CNRS (France); William Guerin, Université Côte d'Azur, Institut de Physique de Nice, CNRS (France); Farokh Vakili-Christensen, Observatoire de la Côte d'Azur (France); Robin Kaiser, Université Côte d'Azur, Institut de Physique de Nice, CNRS (France); Jean-Pierre Rivet, Université Côte d'Azur, Observatoire de la Côte d'Azur, CNRS (France); Mathilde Fouché, Guillaume Labeyrie, Université Côte d'Azur, Institut de Physique de Nice, CNRS (France); Julien Chabé, Clément Courde, Etienne Samain, Observatoire de la Côte d'Azur, CNRS, UMR Géoazur (France); David Vernet, Observatoire de la Côte d'Azur, CNRS, UMS Galilée (France)


[Add To My Schedule](#) 

SPICA, a new 6T visible beam combiner for CHARA: science, design and interfaces (Invited Paper)

Paper 10701-55

Time: 11:40 AM - 12:10 PM

Author(s): Denis Mourard, Nicolas Nardetto, Observatoire de la Côte d'Azur (France); Theo ten Brummelaar, CHARA Array (United States); Christophe Bailet, Philippe Berio, Yves Bresson, Observatoire de la Côte d'Azur (France); Frederic Cassaing, ONERA/DOTA (France); Jean-Michel Clause, Julien Dejonghe, Stephane Lagarde, Marc-Antoine Martinod, Observatoire de la Côte d'Azur (France); Vincent Michau, ONERA/DOTA (France); Karine Perraut, Observatoire de la Côte d'Azur (France); Cyril Petit, ONERA/DOTA (France); Michel Tallon, Isabelle Tallon-Bosc, Observatoire de Lyon (France)

[Add To My Schedule](#) 

Lunch Break 12:10 PM - 1:40 PM

Session 15: Michelson, Fizeau and Thesis Prizes

Friday 15 June 2018

1:40 PM - 2:10 PM

Location: CC Level 3, Room 4A/C

Session Chairs: [Michelle J. Creech-Eakman](#), New Mexico Institute of Mining and Technology (United States) ; [Peter G. Tuthill](#), The Univ. of Sydney (Australia)

Prize Presentations 1:40 PM - 2:10 PM

Session 16: Critical Subsystems II

Friday 15 June 2018

2:10 PM - 3:30 PM

Location: CC Level 3, Room 4A/C


Session Chair: [Peter G. Tuthill](#), The Univ. of Sydney (Australia)

MYSTIC: Michigan Young STar Imager at CHARA

Paper 10701-56

Time: 2:10 PM - 2:30 PM

Author(s): John D. Monnier, Univ. of Michigan (United States); Jean-Baptiste Le Bouquin, Institut de Planétologie et d'Astrophysique de Grenoble (France); Narsireddy Anugu, Stefan Kraus, Univ. of Exeter (United Kingdom); Benjamin Setterholm, Jacob Ennis, Univ. of Michigan (United States); Cyprien Lanthermann, Laurent Jocou, Institut de Planétologie et d'Astrophysique de Grenoble (France); Theo ten Brummelaar, CHARA (United States)


[Add To My Schedule](#) 

The MIRC-X 6-telescope imager: key science drivers, instrument design and operation

Paper 10701-57

Time: 2:30 PM - 2:50 PM

Author(s): Stefan Kraus, Univ. of Exeter (United Kingdom); John D. Monnier, Univ. of Michigan (United States); Narsireddy Anugu, Univ. of Exeter (United Kingdom); Jean-Baptiste Le Bouquin, Univ. of Michigan (United States); Claire Davies, Univ. of Exeter (United Kingdom); Jacob Ennis, Univ. of Michigan (United States); Aaron Labdon, Univ. of Exeter (United Kingdom); Cyprien Lanthermann, Benjamin Setterholm, Univ. of Michigan (United States); Theo ten Brummelaar, CHARA, Georgia State Univ. (United States)


[Add To My Schedule](#) 

MIRC-X/CHARA: sensitivity improvements with an ultra-low noise SAPHIRA detector

Paper 10701-58

Time: 2:50 PM - 3:10 PM

Author(s): Narsireddy Anugu, Univ. of Exeter (United Kingdom); Jean-Baptiste Le Bouquin, Institut de Planétologie et d'Astrophysique de Grenoble (France); John D. Monnier, Univ. of Michigan (United States); Stefan Kraus, Univ. of Exeter (United Kingdom); Jacob Ennis, Univ. of Michigan (United States); Cyprien Lanthermann, Institut de Planétologie et d'Astrophysique de Grenoble (France); Benjamin Setterholm, Univ. of Michigan (United States); Claire Davies, Univ. of Exeter (United Kingdom); Theo ten Brummelaar, Georgia State Univ. (United States); Mariam Haidar, Veronika Dubravec, Scott Peters, Univ. of Michigan (United States)

[Add To My Schedule](#) 

The new classic fringe tracker at NPOI

(Canceled)

Paper 10701-59

Time: 3:10 PM - 3:30 PM


Author(s):

More telescopes than photons: beam multiplexing in imaging interferometers

Paper 10701-64

Time: 3:10 PM - 3:30 PM

Author(s): David F. Buscher, Donald M. A. Wilson, Univ. of Cambridge (United Kingdom)

[Add To My Schedule](#) 

Coffee Break 3:30 PM - 4:00 PM

Wrap-Up and Community Discussion

Friday 15 June 2018

4:00 PM - 4:30 PM

Location: CC Level 3, Room 4A/C

Session Chairs: [Michelle J. Creech-Eakman](#), New Mexico Institute of Mining and Technology (United States) ; [Peter G. Tuthill](#), The Univ. of Sydney (Australia) ; [Antoine Mérand](#), European Southern Observatory (Chile)
