

**LIST OF POSTERS PRESENTED
AT THE ICFO ANNUAL POSTER SESSION**
(from 14:00 to 15:00)

- 01 POSTER 01.** Pag. 12 Poster Exhibition Booklet
Presenter: **Chirag Dhara**
Noisy evolution of graph-state entanglement.
Chirag Dhara, L. Aolita, D. Cavalcanti, R. Chaves, L. Davidovich, A. Acin
Quantum Information Theory
- 02 POSTER 02.** Pag. 14 Poster Exhibition Booklet
Presenter: **Rodrigo Gallego**
Device-independent tests of classical and quantum dimensions
Rodrigo Gallego, Nicolas Brunner, Christopher Hadley and Antonio Acín
Quantum information theory
- 03 POSTER 03.** Pag. 20 Poster Exhibition Booklet
Presenter: **Alexander Grün**
Nonlinear pulse compression by optical sum frequency mixing
Alexander Grün, Jens Biegert
Attoscience and Ultrafast Optics Group
- 04 POSTER 04.** Pag. 26 Poster Exhibition Booklet
Presenter: **Kavita Devi**
Continuous-wave fiber-laser-pumped Ti: sapphire laser
Kavita Devi, S.Chaitanya Kumar, G. K. Samanta and Majid Ebrahim-Zadeh
Optical Parametric Oscillators
- 05 POSTER 05.** Pag. 28 Poster Exhibition Booklet
Presenter: **S. Chaitanya Kumar**
Fiber-Laser-Pumped, High-Power, Continuous-Wave, Mid-Infrared Optical Parametric Oscillator Based on MgO:sPPLT
S. Chaitanya Kumar, Majid Ebrahim-Zadeh
Optical Parametric Oscillators
- 06 POSTER 06.** Pag. 30 Poster Exhibition Booklet
Presenter: **Adolfo Esteban-Martín**
Broadband, rapidly tunable Ti:sapphire-pumped BiB3O6 femtosecond optical parametric oscillator
A. Esteban-Martín, V.Ramaiah-Badarla, V. Petrov and M. Ebrahim-Zadeh
Optical Parametric Oscillators
- 07 POSTER 07.** Pag. 42 Poster Exhibition Booklet
Presenter: **Thomas S. van Zanten**
Direct mapping of nanoscale compositional connectivity on intact cell membranes
Thomas S. van Zanten, Jordi Gómez, Carlo Manzo, Alessandra Cambi, Javier Buceta, Ramon Reigada, Maria F. Garcia-Parajo
Single molecule biophotonics
- 08 POSTER 08.** Pag. 54 Poster Exhibition Booklet
Presenter: **Marta Castro-López**
Aluminum for nonlinear Plasmonics: TPPL and SHG of Al, Ag and Au nanoantennas
M. Castro-Lopez, D. Brinks, R. Sapienza and N. van Hulst
Molecular nanophotonics

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Nonlinear plasmonic nanostar ruler
M. Kuttge, L. Rodríguez-Lorenzo, R. Álvarez-Puebla, L. Liz-Marzán, J. García de Abajo, N. van Hulst
Molecular nanophotonics
- 10 POSTER 10.** Pag. 60 Poster Exhibition Booklet
Presenter: **María Bernechea**
Synthesis of PbS quantum dots with excitonic peak between 600 - 1600 nm and their use in solar cells
María Bernechea, Arup K. Rath, Luis Martinez, Gerasimos Konstantatos
Solution-processed nanophotonic devices
- 11 POSTER 11.** Pag. 62 Poster Exhibition Booklet
Presenter: **Luis Martínez**
Bi2S3 nanocrystals: a novel acceptor for NIR-sensitized, non-toxic hybrid solar cells
Luis Martínez, María Bernechea, F. Pelayo García de Arquer, Gerasimos Konstantatos
Solution-processed nanophotonic devices
- 12 POSTER 12.** Pag. 74 Poster Exhibition Booklet
Presenter: **Tobias Grass**
Quantum Phase Transitions in Non-Abelian Optical Lattices
Tobias Grass, Kush Saha, Krishnendu Sengupta, Maciej Lewenstein
Quantum Optics Theory
- 13 POSTER 13.** Pag. 80 Poster Exhibition Booklet
Presenter: **Rodrigo Aviles-Espinosa**
Portable ultrafast semiconductor disc laser for nonlinear bio-imaging applications
R. Aviles-Espinosa, C. Hamilton, G. Malcolm, K. J. Weingarten, T. Südmeyer, Y. Barbarin, U. Keller, D. Artigas, and P. Loza-Alvarez
Ultrafast imaging and nonlinear microscopy
- 14 POSTER 14.** Pag. 88 Poster Exhibition Booklet
Presenter: **CanYao**
Second-harmonic speckle in transparent random nonlinear structure
Can Yao, Francisco Rodriguez, Jorge Bravo Abad, Jordi Martorell
Organic nanostructured photovoltaics
- 15 POSTER 15.** Pag. 98 Poster Exhibition Booklet
Presenter: **Federica A. Beduini**
Bright many photon entangled states generated from polarization squeezing
Federica A. Beduini and Morgan W. Mitchell
Quantum information with cold atoms and non-classical light
- 16 POSTER 16.** Pag. 100 Poster Exhibition Booklet
Presenter: **Naeimeh Behbood**
Generation of a macroscopic singlet state in an atomic ensemble
Naeimeh Behbood, Giorgio Colangelo, Brice Dubost, Marco Koschorreck, Mario Napolitano, Robert J. Sewell, Geza Tóth, Morgan W. Mitchell
Quantum information with cold atoms and non-classical light

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DNA structural changes revealed using photonic force microscopy and Raman spectroscopy
S. Raj, S. Rao, M. Marro, D. Petrov
Optical Tweezers
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Avoiding Indium in Optoelectronics
Dhriti S Ghosh, T. L. Chen and V. Pruneri
Optoelectronics
- 19** **POSTER 19.** Pag. 128 Poster Exhibition Booklet
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Jon Donner, Guillaume Baffou, Mark P. Kreuzer, Sebastian Thompson, Romain Quidant
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Quasi-nonspreading linear three-dimensional wave packets
Olga V. Borovkova, Yaroslav V. Kartashov, and Lluís Torner
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Presenter: **Fabio Gatti**
Non-radiative coupling between emitters and grapheme
Fabio Gatti, Louis Gaudreau, Klaas-Jan Tielrooij, Guenevere Prawiroatmodjo, Michela Badioli, Darrick E. Chang, F. Javier García de Abajo, Frank H. L. Koppens
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Presenter: **Louis Gaudreau**
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Gerasimos Konstantatos, Michela Badioli, Louis Gaudreau, Johann Osmond, Maria Bernechea, F. Pelayo Garcia de Arquer, Fabio Gatti, Frank H. L. Koppens
Nano-Optoelectronics / Solution-processed nanophotonic devices