

**International Symposium on**  
***Nanostructured Semiconductor Systems:***  
***Physics and Applications***

**Day 1: (25.3.2019, Wednesday)**

8:45 - 9:00	Opening Ceremony	Gadi Eisenstein
<b>Session 1</b>		
9:00 - 9:30	Talk 1: Quantum dots for quantum technologies	Dieter Bimberg
9:30 - 10:00	Talk 2: QDots tapered lasers and amplifiers	Michel Krakowski
10:00 - 10:30	Talk 3: Unlocking the high potential of quantum dot lasers for information communications"	Frederic Grillot
10:30 - 11:00	Talk 4: Modelling of quantum dot lasers @ PoliTO: self-generation of optical frequency combs and QD lasers directly grown on silicon	Mariangela Gioannini
11:00 - 11:30	Coffee break	

<b>Session 2</b>		
11:30 - 12:00	Talk 5: Deterministic fabrication of quantum dot – waveguide systems for on-chip quantum nanophotonics	Stephan Reitzenstein
12:00 - 12:30	Talk 6: Mode locking in a single-section quantum-dot laser	Weng Chow
12:30 - 13:00	Talk 7: Tunnel-injection QD lasers	Frank Jahnke
13:00 - 14:00	Lunch break	

<b>Session 3</b>		
14:00 - 14:30	Talk 8: Quantum cascade frequency combs	Jerome Faist
14:30 - 15:00	Talk 9: Quantum dot single photon sources for quantum technologies	Sven Höfling
15:00 - 15:30	Talk 10: Giant interaction of Rydberg excitons	Manfred Bayer

15:30 - 16:00	Talk 11: Topological Physics in HgTe-based quantum devices	Laurens Molenkamp
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Cultural Evening Event		
16:00 - 17:00	Free time + individual moving to the Orangery Palace	individual
17:00 - 18:30	Visit of Cabinet of Astronomy and Physics situated in the Orangery Palace	on interest
19:00 - 22:00	Symposium Banquet in Brüderkirche	all attendees

**Day 2: (26.3.2019, Thursday)**

**Session 4**

8:45 - 9:15	Talk 12: Trapping excitons in 2D materials for quantum photonics	Jonathan Finley
9:15 - 9:45	Talk 13: Supersensitive optical phase measurement using deterministically generated multiphoton entangled states	David Gershoni
9:45 - 10:15	Talk 14: Integrated quantum photonics with site-controlled quantum dots	Eli Kapon
10:15 - 10:45	Talk 15: Recent results on epitaxial quantum dots as efficient single photon emitters at the telecommunication wavelengths	Grzegorz Sek
10:45 - 11:15	Coffee break	
11:15 - 11:45	Talk 16: Photonic crystal parametric light sources	Alfredo de Rossi

**Session 5**

11:45 - 12:15	Talk 17: Mode-locked vertical emitting semiconductor lasers	Ursula Keller
12:15 - 12:45	Talk 18: Semiconductor Fano lasers	Jesper Mörk
12:45 - 13:15	Talk 19: Photocurrent in graphene in the integer quantum Hall regime	Glenn Solomon
13:15 - 14:30	Lunch break	

**Session 6**

14:30 - 15:00	Talk 20: HVPE assisted micro- and nanostructured devices	Sebastian Lourdudoss
15:00 - 15:30	Talk 21: Advanced light emitting devices for the visible spectral range	Gerd Bacher
15:30 - 16:00	Talk 22: Type II superlattice infrared detectors	Martin Walther
16:00 - 16:30	Coffee break	

**Session 7**

16:30 - 17:00	Talk 23: Advancing photonic electronic integration – enhanced photonic BiCMOS technology	Lars Zimmermann
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17:00 - 17:30	Talk 24: III-V device integration on Si	Fabrice Raineri
17:30 - 18:00	Talk 25: Optical MEMS for smart glazing	Hartmut Hillmer
18:00 - 18:30	Talk 26: Quantum computing with trapped ions	Ferdinand Schmidt-Kaler
18:30	Closing remarks	

**Poster Session**

19:00 - 20:30	Poster session (with beer and bretzel)	all
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**End of Symposium**