

Posters - Tuesday

1. *Conditional preparation of optical non-classical states via coherent-state superpositions*; **P. Adam**, T. Kiss, J. Janszky, Z. Darázs and I. Jex.
2. *Mixed spin state entanglement and generalised Schwinger model*; S. Sirsi and **V. Adiga**.
3. *Experimental realization of linear-optical two-photon gates*; **A. Černoch**, J. Soubusta, L. Bartůšková, M. Dušek and J. Fiurášek.
4. *Atomic multiport beam splitters and their applications*; **J. Cooper**, D. Hallwood and J. Dunningham.
5. *Transfer of angular spectrum and quantum image formation with four-photons generated by a PPKTP crystal*; **O. Cosme**, G. Lima, A. Delgado, C. H. Monken and S. Padua.
6. *Entanglement in a Raman-driven cascaded system*; **Ch. Di Fidio** and W. Vogel.
7. *Polarisation squeezing and entanglement in standard and photonic crystal fibres*; **M. Förtsch**, J. Milanovic, R. Dong, M. Lassen, Ch. Gabriel, Ch. Marquardt, U. L. Andersen and G. Leuchs.
8. *Understanding and uses of cold atom ‘cat states’*; **D. Hallwood**, J. Cooper, T. Ernst, J. Brand and J. Dunningham.
9. *Measurement of angle uncertainty of momentum correlations and spectral characteristics of the photons generated in parametric fluorescence*; **M. Hamar**, A. Černoch, J. Soubusta, V. Michálek, J. Peřina Jr and O. Haderka.
10. *Non-classical nature of a quantum flux in a double SQUID*; **K. Takashima**, T. Fujii, S. Matsuo, N. Hatakenaka, S. Kurihara and A. Zeilinger.
11. *Conditional preparation of arbitrary superpositions of atomic Dicke states*; **K. Lemr** and J. Fiurášek.
12. *Estimation of photonic multipolar coupling ranges among quantum dots on the basis of time-energy uncertainty*; **H. Matsueda**.
13. *Experimental realization of programmable quantum gate*; **M. Mičuda**, M. Ježek, M. Dušek and J. Fiurášek.
14. *Generation of hybrid cluster states using non-demolition measurements*; **D. Milne** and N. Korolkova.
15. *Dynamics of spin systems coupled to bosonic baths beyond the Markov approximation*; I. Sinaysky, F. Petruccione, E. Ferraro, **A. Napoli** and A. Messina.
16. *Experimental proof of commutation rules by superpositions of quantum operators*; M. S. Kim, H. Jeong, A. Zavatta, **V. Parigi** and M. Bellini.
17. *Nonlinear layered media as promising sources of entangled photon pairs*; **J. Peřina Jr**, M. Centini, C. Sibilía, M. Bertolotti and M. Scalora.
18. *Photon-number statistics of twin beams and their non-classical properties*; **J. Peřina Jr**, J. Peřina, O. Haderka, J. Křepelka, M. Hamar, V. Michálek, M. Bondani, A. Allevi and A. Andreoni.
19. *Rubidium resonant squeezed light from a diode-pumped optical-parametric oscillator*; **A. Predojević**, Z. Zhai, J. M. Caballero and M. W. Mitchell.
20. *Transfer of the internal atomic states between two trapped ions and its dependence on the vibrational phonons*; F. K. Nomura and **J. A. Roversi**.
21. *Simultaneous generation and frequency up-conversion of entangled optical images*; **M. Yu. Saigin**.
22. *Experimental implementation of the Quantum Private Queries with linear optics*; F. De Martini, V. Giovanetti, S. Lloyd, L. Maccone, E. Nagali, L. Sansoni and **F. Sciarrino**.
23. *Intensity-field correlation of single-atom resonance fluorescence*; S. Gerber, D. Rotter, **L. Slodička**, J. Eschner, H. Carmichael and R. Blatt.
24. *Identification of continuous variable entanglement and optimized quasi-probabilities*; **J. Sperling**.
25. *Generation of entangled photon pairs in chirped periodically-poled nonlinear crystals*; **J. Svozilík** and J. Peřina Jr.
26. *An approximate beamsplitter interaction between light and matter*; **R. Tatham**, D. Menzies and N. Korolkova.
27. *Ultra-bright narrow-band down-conversion source for atom-photon interaction*; **F. Wolfgramm**, X. Xing, A. Cerè, A. Predojević, A. M. Steinberg and M. W. Mitchell.
28. *Application of photoelasticity to determine stress distribution in glass*; **P. Nováková**, D. Mandát and T. Rössler.
29. *Measuring of optical source stability in sound transfer application*; **P. Mahrová** and M. Pech.

Posters - Thursday

1. *Quantumness tests and witnesses in the tomographic-probability representation*; **S. N. Filippov**.
2. *Ostrogradsky dynamics and Feynman's transition amplitudes*; **T. F. Kamalov** and Yu. P. Rybakov.
3. *Quantum mechanics from classical mechanics with Hilbert phase space*; **A. Khrennikov**.
4. *Heisenberg's uncertainties and the submicroscopic concept*; **V. Krasnoholovets**.
5. *The Bose-Einstein condensation and the submicroscopic concept*; **V. Krasnoholovets**.
6. *Angular momentum coherence and squeezing*; **J. R. Luthra**.
7. *A polynomial method to study the entanglement of pure N -qubit states*; **H. Makela** and A. Messina.
8. *Continuous variables quantum information with light*; **P. Marek**, M. S. Kim, H. Jeong, J. Lee, J. Fiurášek and R. Filip.
9. *Better-than-Heisenberg scaling of sensitivity in metrology*; **M. Napolitano**, N. Behbood, B. Dubost, M. Koschorreck and M. W. Mitchell.
10. *Quantitative wave-particle duality and sensitivity of phase measurement*; A. Lukš and **V. Peřinová**.
11. *Geometric representation and quantum entanglement in multiple-qubit systems*; **P. A. Pinilla** and J. R. Luthra.
12. *Squeezed entangled state generated by a Dicke phase-transition*; I. Sainz, A. B. Klimov and **L. Roa**.
13. *Minimal energy cost for quantum information processing: measurement and information erasure*; **T. Sagawa** and M. Ueda.
14. *Classical capacity of a bosonic memory channel with Gauss-Markov noise*; **J. Schäfer**, D. Daems, E. Karpov and N. J. Cerf.
15. *The quantum theory of the Early Universe and some consequences from it*; **A. Shalyt-Margolin**.
16. *Comparison of uncertainty relations in quantum mechanics and signal processing*; **A. Udal**, V. Kuk, E. Velmre and M. Klopov.
17. *Optimal measurement on noisy quantum systems*; **Y. Watanabe**, T. Sagawa and M. Ueda.
18. *Protection of continuous variable entanglement via passive operations*; A. Serafini and **H. Yadsan-Appleby**.