

Poster Session Program

Jason Biggs

Monitoring the Vibrational Control of Electronic Excitation Energy

Craig Chapman

Mixed Quantum/Semi-Classical Descriptions of small-molecule Dynamics

Josh Combes, Howard Wiseman, and Kurt Jacobs

Rapid Measurement and Purification of Quantum Systems

Kevin Henderson

Time-averaged arbitrary optical dipole potentials for dynamic manipulation of Bose-Einstein condensates

B. L. Higgins, B. M. Booth, A. C. Doherty, S. D. Bartlett, H. M. Wiseman, and G. J. Pryde

Adaptive State Discrimination

Michael Hush

Quantum Control of a Multimode Atom Laser

Dr. Matt James

Optimal Control of Closed Loop Quantum Systems

Cody Leary

Phase-Stable 2-D Parity Measurements of Transverse Spatial States of Light and their Application to the Production of Spatial-Mode-Entangled Photon Pairs

Kazunori Nishio

Feedback control of noiseless subsystems

Young-Shin Park

Opto-mechanical cooling of a silica micro-resonator in a cryogenic environment

Takahiro Sagawa

Second Law of Thermodynamics with Discrete Quantum Feedback Control

Alireza Shabani and Kurt Jacobs

Locally Optimal Control of Quantum Systems with Strong Feedback

Jeremy Thorn, Elizabeth Schoene, Tao Li, and Daniel Steck

One-Way Barrier for Alkali Atoms

Graham White

No Non-locality for a Single Photon: Measurement induced non-locality of multi-photon local oscillators