QED^2

Second workshop on
Quantum Entanglement and its Detection

Siegen, 19. - 23. September 2011

Program

Monday, 19.09.2011:

9:00	Opening
9:30	**D. Braun:** *Quantumness and entanglement*
10:15	Coffee
10:45	**T. Bastin:** *Operational entanglement classification for symmetric N-qubit states*

11:30	**R. Augusiak:** *Tight Bell inequalities with no quantum violation from unextendible product bases*
12:15	Lunch Break
14:00	**J. de Vicente:** *Multipartite entanglement detection from correlation tensors*
14:45	**B. Jungnitsch:** *Multiparticle entanglement and PPT mixtures*
15:15	Coffee
15:45	**H. Kampermann:** *State identification via decompositions of mixed quantum states*
16:30	**S. Niekamp:** *Quantum exponential families*
19:30	Conference Dinner, Oberes Schloß

Tuesday, 20.09.2011:

9:00	**C. Schwemmer:** *Permutationally invariant tomography of symmetric Dicke states*
9:45	**T. Moroder:** *Theoretical aspects of permutationally invariant tomography*
10:15	Coffee
10:45	**D. Gross:** *Regularization methods for ill-posed state estimation problems*
11:30	**P. Hyllus:** *Multiparticle entanglement and interferometry*
12:00	**I. Urizar-Lanz:** *Differential magnetometry with multipartite singlets*
12:30	Lunch Break
14:00	**J. Siewert:** *Entanglement of three-qubit GHZ-symmetric states*
14:45	**C. Eltschka:** *Applications from entanglement properties of thee-qubit GHZ symmetric states.*
15:15	Coffee
15:45	**M. Johanning:** *Ion-trap experiments in Siegen: Recent results*
16:30	**M. Hofmann:** *Multiparticle entanglement and quantum phase transitions*

Wednesday, 21.09.2011:

9:00	**G. Toth:** *Spin squeezing and N-producibility*
9:30	**G. Vitagliano:** *Spin squeezing for higher spins*
10:00	**M. Ali:** *Decoherence of GHZ-diagonal states*
10:30	Coffee
11:00	**J.D. Bancal:** *Device-independent witnesses for genuine multipartite entanglement*
11:45	**M. Kleinmann:** *Asymptotic LOCC protocols*

Invited Speakers and Participants

- Remik Augusiak (Barcelona)
- Jean-Daniel Bancal (Genf)
- Thierry Bastin (Liege)
- Daniel Braun (Toulouse)
- Christopher Eltschka (Regensburg)
- Philipp Hyllus (Bilbao)
- Michael Johanning (Siegen)
- Bastian Jungnitsch (Innsbruck)
- Hermann Kampermann (Düsseldorf)
- David Gross (Zürich)
- Tobias Moroder (Innsbruck)
- Christian Schwemmer (München)
- Jens Siewert (Bilbao)
- Geza Toth (Bilbao)
- Inigo Urizar-Lanz (Bilbao)
- Julio de Vicente (Innsbruck)
- Giuseppe Vitagliano (Bilbao)
- Mazhar Ali (Siegen)
- Otfried Gühne (Siegen)
- Martin Hofmann (Siegen)
- Matthias Kleinmann (Siegen)
- Sönke Niekamp (Siegen)

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