## Stefan Weigert

## List of Publications by Year in descending order

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1 Constructing mutually unbiased bases in dimension six. Physical Review A, 2009, 79, . ..... 74
2 Maximal sets of mutually unbiased quantum states in dimension 6. Physical Review A, 2008, 78, . ..... 2.5 ..... 64802-805.7.862
Quantum Time Evolution in Terms of Nonredundant Probabilities. Physical Review Letters, 2000, 84,2.8
Diagonalization of multicomponent
Review A, 1993, 47, 3506-3512.
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12 How to determine a quantum state by measurements: The Pauli problem for a particle with arbitrarypotential. Physical Review A, 1996, 53, 2078-2083.2.53913 Heisenberg uncertainty relation for three canonical observables. Physical Review A, 2014, 90, .2.53514 Reconstructing the density matrix of a spinsthrough Stern-Gerlach measurements: Il. Journal ofPhysics A, 1999, 32, L269-L274.
19 Mutually unbiased bases for continuous variables. Physical Review A, 2008, 78, . 28

20 The limited role of mutually unbiased product bases in dimension 6. Journal of Physics A: Mathematical and Theoretical, 2012, 45, 102001.
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> Mutually unbiased bases and semi-definite programming. Journal of Physics: Conference Series, 2010, $254,012008$.
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SIMPLE MINIMAL INFORMATIONALLY COMPLETE MEASUREMENTS FOR QUDITS. International Journal of
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Modern Physics B, 2006, 20, 1942-1955.

Quantum integrability and action operators in spin dynamics. Chaos, Solitons and Fractals, 1995, 5,
1419-1438.
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DiscreteQ- andP-symbols for spins. Journal of Optics B: Quantum and Semiclassical Optics, 2000, 2,
118-121.

25 ON THE IMPOSSIBILITY TO EXTEND TRIPLES OF MUTUALLY UNBIASED PRODUCT BASES IN DIMENSION SIX.
International Journal of Quantum Information, 2012, 10, 1250056.
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26 Quantum chaos in the configurational quantum cat map. Physical Review A, 1993, 48, 1780-1798.
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27 Contracting the Wigner kernel of a spin to the Wigner kernel of a particle. Physical Review A, 2000, 63,
28 ÂÂ-symmetry and its spontaneous breakdown explained by anti-linearity. Journal of Optics B: Quantum
and Semiclassical Optics, 2003, 5, S416-S419.
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Reconstructing the density matrix of a spinsthrough Stern - Gerlach measurements. Journal ofPhysics A, 1998, 31, L543-L548.
30 The Physical Interpretation of PT-invariant Potentials. European Physical Journal D, 2004, 54, 1139-1142.0.415
31 Optimal Detection of Rotations about Unknown Axes by Coherent and Anticoherent States. Quantum - 0.0 ..... 15 the Open Journal for Quantum Science, 0, 4, 285.

Topological quenching of the tunnel splitting for a particle in a double-well potential on a planar
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All mutually unbiased product bases in dimension 6. Journal of Physics A: Mathematical and

A Gleason-type theorem for qubits based on mixtures of projective measurements. Journal of Physics
A: Mathematical and Theoretical, 2019, 52, 055301.

Topologically Quenched Tunnel Splitting in a Spin System Obtained from Quantum-Mechanical
38 Perturbation Theory. Europhysics Letters, 1994, 26, 561-564.
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39 The Gram Matrix of a PT-Symmetric Quantum System. European Physical Journal D, 2004, 54, 147-149. 12

How to test for diagonalizability: the discretized PT-invariant square-well potential. European
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Physical Journal D, 2005, 55, 1183-1186.

41 Chaos and quantum-nondemolition measurements. Physical Review A, 1991, 43, 6597-6603.
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42 Detecting broken -symmetry. Journal of Physics A, 2006, 39, 10239-10246.

Isolated Hadamard matrices from mutually unbiased product bases. Journal of Mathematical Physics,
2012, 53,

Mutually unbiased product bases for multiple qudits. Journal of Mathematical Physics, 2016, 57, .

Geometry of uncertainty relations for linear combinations of position and momentum. Journal of
Physics A: Mathematical and Theoretical, 2018, 51, 025303.

Spatial squeezing of the vacuum and the Casimir effect. Physics Letters, Section A: General, Atomic and
Solid State Physics, 1996, 214, 215-220.

Universality in uncertainty relations for a quantum particle. Journal of Physics A: Mathematical and
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Quantum Particle on a Rotating Loop: Topological Quenching due to a Coriolis-Aharonov-Bohm
48 Effect. Physical Review Letters, 1995, 75, 1435-1438.
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49 Preparational Uncertainty Relations for N Continuous Variables. Mathematics, 2016, 4, 49.
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General Probabilistic Theories with a Gleason-type Theorem. Quantum - the Open Journal for Quantum
Science, 0, 5, 588.
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Classical degeneracy and the existence of additional constants of motion. American Journal of
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Physics, 1993, 61, 272-277.

Solvable three-state model of a driven double-well potential and coherent destruction of tunneling.
Physical Review A, 1998, 57, 68-78.

An algorithmic test for diagonalizability of finite-dimensional PT-invariant systems. Journal of Physics
A, 2006, 39, 235-245.

Upper Quantum Lyapunov Exponent and Anosov Relations for Quantum Systems Driven by a Classical
Flow. Journal of Statistical Physics, 2007, 127, 699-719.
57 Expanding Hermitian operators in a basis of projectors on coherent spin states. Journal of Optics B:

61 Luìders theorem for coherent-state POVMs. Journal of Mathematical Physics, 2003, 44, 5474.

Affine constellations without mutually unbiased counterparts. Journal of Physics A: Mathematical and Theoretical, 2010, 43, 402002.

Gauge Transformations for a Driven Quantum Particle in an Infinite Square Well. Foundations of
Physics, 1999, 29, 1785-1805.

A quantum search for zeros of polynomials. Journal of Optics B: Quantum and Semiclassical Optics,
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Quantum Groups, Quantum Foundations and Quantum Information: a Festschrift for Tony Sudbery. Journal of Physics: Conference Series, 2010, 254, 011001.
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67 Friction causing unpredictability. Journal of Physics A: Mathematical and Theoretical, 2016, 49, 125102.
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Paul Busch: Contributions to Quantum Theory. Journal of Physics: Conference Series, 2020, 1638, 012014.

