## Stefan Weigert

List of Publications by Year in descending order

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STEEAN WEIGERT

| #  | Article  | IF  | CITATIONS |
|----|--|-----|-----------|
| 1  | Constructing mutually unbiased bases in dimension six. Physical Review A, 2009, 79, .  | 2.5 | 74        |
| 2  | Maximal sets of mutually unbiased quantum states in dimension 6. Physical Review A, 2008, 78, .  | 2.5 | 64        |
| 3  | Quantum Time Evolution in Terms of Nonredundant Probabilities. Physical Review Letters, 2000, 84,<br>802-805.  | 7.8 | 62        |
| 4  | The problem of quantum integrability. Physica D: Nonlinear Phenomena, 1992, 56, 107-119.   | 2.8 | 57        |
| 5  | Frequency shifts of cantilevers vibrating in various media. Applied Physics Letters, 1996, 69, 2834-2836.  | 3.3 | 56        |
| 6  | Adiabatic motion of a neutral spinning particle in an inhomogeneous magnetic field. Physical Review A,<br>1993, 48, 924-940.                         | 2.5 | 52        |
| 7  | Pauli problem for a spin of arbitrary length: A simple method to determine its wave function. Physical<br>Review A, 1992, 45, 7688-7696.             | 2.5 | 51        |
| 8  | Discrete Moyal-type representations for a spin. Physical Review A, 2000, 63, .   | 2.5 | 50        |
| 9  | Completeness and orthonormality inPT-symmetric quantum systems. Physical Review A, 2003, 68, .   | 2.5 | 49        |
| 10 | All mutually unbiased bases in dimensions two to five. Quantum Information and Computation, 2010, 10, 803-820.                                       | 0.3 | 43        |
| 11 | Diagonalization of multicomponent wave equations with a Born-Oppenheimer example. Physical<br>Review A, 1993, 47, 3506-3512.                         | 2.5 | 41        |
| 12 | How to determine a quantum state by measurements: The Pauli problem for a particle with arbitrary potential. Physical Review A, 1996, 53, 2078-2083. | 2.5 | 39        |
| 13 | Heisenberg uncertainty relation for three canonical observables. Physical Review A, 2014, 90, .  | 2.5 | 35        |
| 14 | Reconstructing the density matrix of a spinsthrough Stern-Gerlach measurements: II. Journal of Physics A, 1999, 32, L269-L274.                       | 1.6 | 33        |
| 15 | Reconstructing a pure state of a spinsthrough three Stern-Gerlach measurements. Journal of Physics<br>A, 1999, 32, 2777-2784.                        | 1.6 | 33        |
| 16 | Quantum correlation games. Journal of Physics A, 2004, 37, 5873-5885.  | 1.6 | 31        |
| 17 | Baker - Campbell - Hausdorff relation for special unitary groups. Journal of Physics A, 1997, 30,<br>8739-8749.                                      | 1.6 | 29        |
| 18 | Coherent states and the reconstruction of pure spin states. Journal of Optics B: Quantum and Semiclassical Optics, 1999, 1, L5-L8.                   | 1.4 | 29        |

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|----|--|-----|-----------|
| 19 | Mutually unbiased bases for continuous variables. Physical Review A, 2008, 78, .   | 2.5 | 28        |
| 20 | The limited role of mutually unbiased product bases in dimension 6. Journal of Physics A: Mathematical and Theoretical, 2012, 45, 102001.                                    | 2.1 | 25        |
| 21 | Mutually unbiased bases and semi-definite programming. Journal of Physics: Conference Series, 2010, 254, 012008.   | 0.4 | 23        |
| 22 | SIMPLE MINIMAL INFORMATIONALLY COMPLETE MEASUREMENTS FOR QUDITS. International Journal of Modern Physics B, 2006, 20, 1942-1955.   | 2.0 | 22        |
| 23 | Quantum integrability and action operators in spin dynamics. Chaos, Solitons and Fractals, 1995, 5, 1419-1438.   | 5.1 | 21        |
| 24 | DiscreteQ- andP-symbols for spins. Journal of Optics B: Quantum and Semiclassical Optics, 2000, 2, 118-121.  | 1.4 | 21        |
| 25 | ON THE IMPOSSIBILITY TO EXTEND TRIPLES OF MUTUALLY UNBIASED PRODUCT BASES IN DIMENSION SIX.<br>International Journal of Quantum Information, 2012, 10, 1250056.              | 1.1 | 20        |
| 26 | Quantum chaos in the configurational quantum cat map. Physical Review A, 1993, 48, 1780-1798.  | 2.5 | 19        |
| 27 | Contracting the Wigner kernel of a spin to the Wigner kernel of a particle. Physical Review A, 2000, 63,   | 2.5 | 18        |
| 28 | ÂÂ-symmetry and its spontaneous breakdown explained by anti-linearity. Journal of Optics B: Quantum<br>and Semiclassical Optics, 2003, 5, S416-S419.                         | 1.4 | 18        |
| 29 | Reconstructing the density matrix of a spinsthrough Stern - Gerlach measurements. Journal of Physics A, 1998, 31, L543-L548.   | 1.6 | 16        |
| 30 | The Physical Interpretation of PT-invariant Potentials. European Physical Journal D, 2004, 54, 1139-1142.  | 0.4 | 15        |
| 31 | Optimal Detection of Rotations about Unknown Axes by Coherent and Anticoherent States. Quantum -<br>the Open Journal for Quantum Science, 0, 4, 285.                         | 0.0 | 15        |
| 32 | Topological quenching of the tunnel splitting for a particle in a double-well potential on a planar<br>loop. Physical Review A, 1994, 50, 4572-4581.                         | 2.5 | 14        |
| 33 | Electric conductivity near the percolation transition of a nonionic water-in-oil microemulsion.<br>Physica A: Statistical Mechanics and Its Applications, 1997, 242, 95-103. | 2.6 | 14        |
| 34 | All mutually unbiased product bases in dimension 6. Journal of Physics A: Mathematical and Theoretical, 2012, 45, 135307.  | 2.1 | 14        |
| 35 | Commensurate harmonic oscillators: Classical symmetries. Journal of Mathematical Physics, 2002, 43, 4110-4126.   | 1.1 | 13        |
| 36 | Quantum parametric resonance. Journal of Physics A, 2002, 35, 4169-4181.   | 1.6 | 13        |

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|----|---|-----|-----------|
| 37 | A Gleason-type theorem for qubits based on mixtures of projective measurements. Journal of Physics<br>A: Mathematical and Theoretical, 2019, 52, 055301.  | 2.1 | 13        |
| 38 | Topologically Quenched Tunnel Splitting in a Spin System Obtained from Quantum-Mechanical<br>Perturbation Theory. Europhysics Letters, 1994, 26, 561-564. | 2.0 | 12        |
| 39 | The Gram Matrix of a PT-Symmetric Quantum System. European Physical Journal D, 2004, 54, 147-149.   | 0.4 | 12        |
| 40 | How to test for diagonalizability: the discretized PT-invariant square-well potential. European<br>Physical Journal D, 2005, 55, 1183-1186.               | 0.4 | 12        |
| 41 | Chaos and quantum-nondemolition measurements. Physical Review A, 1991, 43, 6597-6603.   | 2.5 | 10        |
| 42 | Detecting broken -symmetry. Journal of Physics A, 2006, 39, 10239-10246.  | 1.6 | 10        |
| 43 | Isolated Hadamard matrices from mutually unbiased product bases. Journal of Mathematical Physics, 2012, 53, .   | 1.1 | 9         |
| 44 | Mutually unbiased product bases for multiple qudits. Journal of Mathematical Physics, 2016, 57, .   | 1.1 | 9         |
| 45 | Geometry of uncertainty relations for linear combinations of position and momentum. Journal of Physics A: Mathematical and Theoretical, 2018, 51, 025303. | 2.1 | 9         |
| 46 | Spatial squeezing of the vacuum and the Casimir effect. Physics Letters, Section A: General, Atomic and<br>Solid State Physics, 1996, 214, 215-220.       | 2.1 | 8         |
| 47 | Universality in uncertainty relations for a quantum particle. Journal of Physics A: Mathematical and<br>Theoretical, 2016, 49, 355303.                    | 2.1 | 8         |
| 48 | Quantum Particle on a Rotating Loop: Topological Quenching due to a Coriolis-Aharonov-Bohm<br>Effect. Physical Review Letters, 1995, 75, 1435-1438.       | 7.8 | 7         |
| 49 | Preparational Uncertainty Relations for N Continuous Variables. Mathematics, 2016, 4, 49.   | 2.2 | 7         |
| 50 | General Probabilistic Theories with a Gleason-type Theorem. Quantum - the Open Journal for Quantum<br>Science, 0, 5, 588.                                 | 0.0 | 7         |
| 51 | Classical degeneracy and the existence of additional constants of motion. American Journal of Physics, 1993, 61, 272-277.                                 | 0.7 | 6         |
| 52 | Solvable three-state model of a driven double-well potential and coherent destruction of tunneling.<br>Physical Review A, 1998, 57, 68-78.                | 2.5 | 6         |
| 53 | An algorithmic test for diagonalizability of finite-dimensional PT-invariant systems. Journal of Physics<br>A, 2006, 39, 235-245.                         | 1.6 | 5         |
| 54 | Upper Quantum Lyapunov Exponent and Anosov Relations for Quantum Systems Driven by a Classical Flow. Journal of Statistical Physics, 2007, 127, 699-719.  | 1.2 | 5         |

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|----|---|-----|-----------|
| 55 | Landscape of uncertainty in Hilbert space for one-particle states. Physical Review A, 1996, 53, 2084-2088.  | 2.5 | 4         |
| 56 | Small denominators, frequency operators, and Lie transforms for nearly integrable quantum spin systems. Physical Review A, 1996, 53, 2971-2982.             | 2.5 | 3         |
| 57 | Expanding Hermitian operators in a basis of projectors on coherent spin states. Journal of Optics B:<br>Quantum and Semiclassical Optics, 2004, 6, 489-490. | 1.4 | 3         |
| 58 | Gleason-Type Theorems from Cauchy's Functional Equation. Foundations of Physics, 2019, 49, 594-606.   | 1.3 | 3         |
| 59 | Many-path interference and topologically suppressed tunneling. Europhysics Letters, 1998, 42, 599-604.  | 2.0 | 2         |
| 60 | Quantum diagonalization of Hermitean matrices. Journal of Physics A, 2001, 34, 5619-5624.   | 1.6 | 2         |
| 61 | LuÌ ders theorem for coherent-state POVMs. Journal of Mathematical Physics, 2003, 44, 5474.   | 1.1 | 2         |
| 62 | Affine constellations without mutually unbiased counterparts. Journal of Physics A: Mathematical and Theoretical, 2010, 43, 402002.                         | 2.1 | 2         |
| 63 | Hamiltonian Chaos IV. Computers in Physics, 1996, 10, 39.   | 0.5 | 1         |
| 64 | Gauge Transformations for a Driven Quantum Particle in an Infinite Square Well. Foundations of Physics, 1999, 29, 1785-1805.                                | 1.3 | 1         |
| 65 | A quantum search for zeros of polynomials. Journal of Optics B: Quantum and Semiclassical Optics, 2003, 5, S586-S588.                                       | 1.4 | 1         |
| 66 | Quantum Groups, Quantum Foundations and Quantum Information: a Festschrift for Tony Sudbery.<br>Journal of Physics: Conference Series, 2010, 254, 011001.   | 0.4 | 1         |
| 67 | Friction causing unpredictability. Journal of Physics A: Mathematical and Theoretical, 2016, 49, 125102.  | 2.1 | 0         |
| 68 | Paul Busch: Contributions to Quantum Theory. Journal of Physics: Conference Series, 2020, 1638, 012014.   | 0.4 | 0         |
| 69 | Quantum Chaos. , 2009, , 514-517.   |     | 0         |
| 70 | Quantum State Reconstruction. , 2009, , 609-611.  |     | 0         |