

## Classical Semi Classical And Quantum Noise

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### Classical Semi Classical And Quantum

Semiclassical physics, or simply semiclassical refers to a theory in which one part of a system is described quantum-mechanically whereas the other is treated classically. For example, external fields will be constant, or when changing will be classically described. In general, it incorporates a development in powers of Planck's constant, resulting in the classical physics of power 0, and the first nontrivial approximation to the power of  $(-1)$ .

### Semiclassical physics - Wikipedia

Focusing on classical noise modeling and applications, Classical, Semi-Classical and Quantum Noise includes coverage of statistical communication theory, non-stationary noise, molecular footprints, noise suppression, Quantum error correction, and other related topics. --This text refers to the paperback edition.

### Classical, Semi-classical and Quantum Noise, Cohen, Leon ...

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### Classical, Semi-classical and Quantum Noise | SpringerLink

Classical Ising model: fields and spins are classical (the spin has continuous values between -1 and +1. The dynamics of the Hamiltonian (for example in simulated annealing) is described by the classical equation of motion. Quantum Ising model: Here we can rewrite the classical spins as  $\sigma_j^z$ , thus they have just distinct values ( $\pm 1$ ).

### Difference between classical, semi-classical and quantum ...

When applied to quantum mechanics, it is called the semi-classical approximation, since classical physics then illuminates the main features of the quantum wavefunction. The de Broglie wavelength of a particle can help us assess if classical physics is relevant to the physical situation.

### Quantum Physics III Chapter 3: Semiclassical Approximation

Andrei Nechayev, On the Semi-classical Approach to the Physical Axiomatic of Quantum Mechanics and the New Wave-Particle Interpretation of Light, American Journal of Modern Physics. Vol. 9, No. 3, 2020, pp. 48-54. doi: 10.11648/j.ajmp.20200903.12

### On the Semi-classical Approach to the Physical Axiomatic ...

A system can only be called semiclassical if there are parts of the system that are described classically and parts described quantum-mechanically. In this paradigm, physical quantities are described in a power series of  $\hbar$ , with the zero order corresponding to classical physics and higher orders corresponding to quantum corrections.

### Semiclassical vs classical | Physics Forums

"Semiclassical" means a treatment of a quantum system whose part is described classically, and another part quantum mechanically. Fields may be classical, particle positions inside the fields quantum mechanical; metric field may be classical and other matter fields are quantum mechanical, and so on.

### Lagrangian formalism - Semiclassical limit of Quantum ...

Quantum mechanics differs from classical physics in that energy, momentum, angular momentum, and other quantities of a bound system are restricted to discrete values (quantization), objects have characteristics of both particles and waves (wave-particle duality), and there are limits to how accurately the value of a physical quantity can be predicted prior to its measurement, given a complete set of initial conditions (the uncertainty principle).

### Quantum mechanics - Wikipedia

The criteria for tunneling ionisation are hotly contested, and there is no agreement on definitions for classical, semi-classical or quantum approaches. Notions of nonclassicality are fuzzier than in quantum optics or semi-classical theory and must be developed. Finally, decoherence has remained largely unexplored.

### QUANTUM BATTLES 2020 - Home

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### Classical, Semi-classical and Quantum Noise eBook por ...

To help unravel the many dynamical and spectral possibilities, a semi-classical analysis involving rotational energy surfaces RES may be used to elucidate both classical and quantum modeling.

### Classical, semi-classical, and quantum dynamics of uni ...

Molecules carrying more or less freely turning rotors have classical and quantum rotational properties that are more difficult to calculate and visualize than those of a more conventional semi-rigid molecule. The analogy with a gyro-stabilized spacecraft provides a starting point for discussion, but the quantum mechanics of angular momentum provides a far richer state space than the corresponding classical model.

### CLASSICAL, SEMI-CLASSICAL, AND QUANTUM DYNAMICS OF UNI ...

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### Classical, Semi-classical and Quantum Noise | Leon Cohen ...

T C Andersen 2019 J. Phys.: Conf. Ser. 1275 012038 – 9th International Workshop DICE2018 : Spacetime – Matter – Quantum Mechanics Abstract

### quantum mechanics « Emergent Physics

Density-functional theory calculations are performed to investigate proton transport in BaSnO3. Structural optimizations in the stable and saddle point configurations for transfer (hopping) and reorientation allow description of the high-temperature classical and semi-classical regimes, in which diffusion oc

### Proton transport in barium stannate: classical, semi ...

Classical oracles measure both their input and their output, whereas quantum-accessible oracles measure neither. We define semi-classical oracles, which measure their output but not their input.

### Quantum security proofs using semi-classical oracles

The semi-classical approximation is widely applied in modern physics in problems of the propagation of sound, elastic and electromagnetic waves, in non-relativistic and relativistic quantum mechanics and other questions.

### Semi-classical approximation - Encyclopedia of Mathematics

The Classical Limit of Commutator (without fancy mathematics) Quantum mechanics occupies a very unusual place among physical theories: It contains classical mechanics as a limiting case, yet at the same time it requires this limiting case for its own formulation.

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