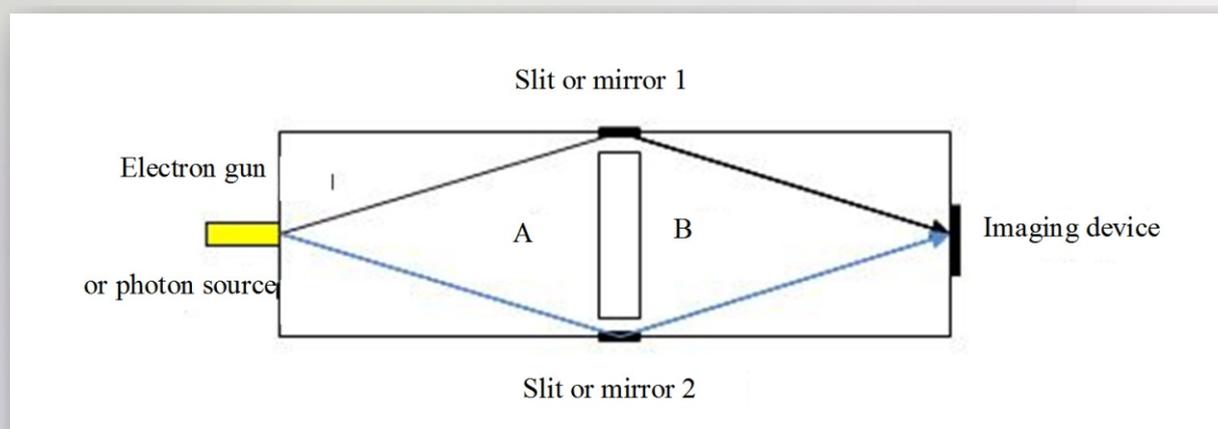




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Subject Coverage

The field of Quantum Information Science is the most challenging and hot topic among all branches of science. This field is also quite interdisciplinary in character, and people from quantum theory, computer science, mathematics, information theory, condensed matter physics, many-body physics and many more have been actively involved to understand implications of quantum mechanics in information processing. JQIS aims to publish research papers in the following areas:

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- Quantum Computation: Quantum algorithms; Quantum complexity; Simulation of complex systems; Quantum memory; Quantum mechanical automata; Quantum universal constructors; Quantum algorithms and computations with continuous variables.
- Quantum Cryptography: Application of quantum mechanics in communication; quantum key distribution; Quantum bit commitment; Different kind of attacks on cryptographic protocols.
- Quantum Entanglement: Bell's inequality and non-locality issues; Quantification of entanglement; Measures of entanglement; Entanglement as resource; Detection of entanglement; Conversion of entanglement; Theory of majorisation.
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- Quantum Information Theory: Fundamental issues in quantum information; Quantum cloning; Quantum deleting; Quantum coding; Channel capacities; Data compression; Quantum error-correction; Decoherence; Optimal quantum measurements.
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