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Nota di contenuto	""Contents""; ""Preface""; ""Gilles Brassard Awarded Pot de Vin Prize""; ""List of Participants""; ""Space searches with a quantum robot""; ""Perturbation theory and numerical modeling of quantum logic operations with a large number of qubits""; ""Inconclusive rate with a positive operator valued measure""; ""1. Introduction""; ""2. Inconclusive rates comparison""; ""3. Disturbed inconclusive rate""; ""4. Consistency""; ""5. Conclusion""; ""6. Acknowledgements""; ""References""; ""Quantum amplitude amplification and estimation"" ""Manipulating the entanglement of one copy of a two-particle pure entangled state""""""Geometric algebra in quantum information processing""; ""Quantum computing and the Jones polynomial""; ""1. Introduction""; ""2. Dirac Brackets""; ""3. Braiding, Projectors and the Temperley Lieb Algebra""; ""4. The Bracket Polynomial""; ""5. Knot Amplitudes""; ""6. Quantum Computing""; ""7. Summary""; ""References""; ""Quantum hidden subgroup algorithms: A mathematical perspective""; ""Part 1. Preamble""; ""1. Introduction""; ""2. An example of Shor's quantum factoring algorithm"" ""3. Definition of the hidden subgroup problem (HSP) and hidden subgroup algorithms (HSAs)""""""Part 2. Algebraic Preliminaries""; ""4. The Character Group""; ""5. Fourier analysis on a finite abelian group""; ""6.

Implementation issues: Group algebras as Hilbert spaces""; ""Part 3. QRandI?(): The Progenitor of All QHSAs""; ""7. Implementing ProbI? (X) with quantum subroutine QRANDI?()""; ""Part 4. Vintage Simon Algorithms""; ""8. Properties of the probability distribution ProbI? (X) when I? has a hidden subgroup""; ""9. A Markov process MI? induced by ProbI?""
""A proof that measured data and equations of quantum mechanics can be linked only by guesswork""