Solution to the King’s Problem in Prime Power Dimensions

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It is shown how to ascertain the values of a complete set of mutually complementary observables of a prime power degree of freedom by generalizing the solution in prime dimensions given by Englert and Aharonov [Phys. Lett. A284, 1 – 5 (2001)].

Key words: Mutually Unbiased Bases; King’s Problem; Quantum State Estimation.