Special Properties of the Zeros of the Analytic Representations of Finite Quantum Systems

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Abstract : The paper contains an investigation on the special properties of the zeros of the analytic representations of finite quantum systems. These zeros and their paths completely define the finite quantum system. The present paper studies the construction of the analytic representation from its zeros. The analytic functions of finite quantum systems are introduced. The zeros of the analytic theta functions and their paths have been studied. The analytic function $f(z)$ have exactly d zeros. The analytic function has been constructed from its zeros.