

Quantum Phase Transitions in periodically quenched systems

Jesús Casado-Pascual¹, Álvaro Sáiz^{2,3}, Jamil Khalouf-Rivera^{3,4,5}, José Miguel Arias^{2,6}, and Pedro Pérez-Fernández^{3,6}

¹*Física Teórica, Universidad de Sevilla, Apartado de Correos 1065, Sevilla 41080, Spain*

²*Departamento de Física Atómica, Molecular y Nuclear, Facultad de Física, Universidad de Sevilla, Apartado 1065, E-41080 Sevilla, Spain*

³*Departamento de Física Aplicada III, Escuela Técnica Superior de Ingeniería, Universidad de Sevilla, E-41092 Sevilla, Spain*

⁴*School of Physics, Trinity College Dublin, College Green, Dublin 2, Ireland*

⁵*Departamento de Ciencias Integradas y Centro de Estudios Avanzados en Física, Matemática y Computación, Universidad de Huelva, 21071 Huelva, Spain*

⁶*Instituto Carlos I de Física Teórica y Computacional, Universidad de Granada, Fuentenueva s/n, 18071 Granada, Spain*

Quantum phase transitions encompass a variety of phenomena that occur in quantum systems exhibiting several possible symmetries. Traditionally, these transitions are explored by continuously varying a control parameter that connects two different symmetry configurations. Here we propose an alternative approach where the control parameter undergoes abrupt and time-periodic jumps between only two values [1]. This approach yields results surprisingly similar to those obtained by the traditional one and may prove experimentally useful in situations where accessing the control parameter is challenging.

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