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TITULO: Deconfined quantum criticality

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ABSTRACT

In quantum phase transitions, quantum fluctuations play the role of thermal fluctuations in standard phase transitions. In some quantum phase transitions, called deconfined quantum transitions, the two phases involved have different and incompatible order parameters. We will describe how these deconfined transitions represent a new paradigm, not fitting in the Ginzburg-Landau theory. We will present results of numerical simulations difficult to understand with present theoretical frameworks, and intermediate between standard results for first and second order phase transitions.