Applications of Field Theory to Hermitian and Non-Hermitian Systems



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Nucleation seeds and vacuum bubbles

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In nature, most examples of bubbe nucleation occur around nucleation seeds. Clouds are an example, were particles of dust are needed to start off the process of making rain. The theory of nucleation around seeds in phase transitions or in false vacuum decay is a rich one, with interesting outcomes. The theory has applications to laboratory vacuum decay experiments, stimulated decay from collisions or black holes, and may shed some light on environmental questions such as cloud formation.

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