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Nucleation seeds and vacuum bubbles

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In nature, most examples of bubble nucleation occur around nucleation seeds. Clouds are an example, where 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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