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Hagedorn-like phase transitions at high supersymmetry breaking scale

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Phase transitions can occur in string theory, when the scale of spontaneous breaking of supersymmetry is of the order of the string scale. We describe these instabilities at the level of the effective supergravity at low energy. In this framework, infinitely many scalars that can become tachyonic are taken into account. They play the role of order parameters whose condensations yield various phases, with drastically different properties.

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