

Chaos of the bound-states in anti-de Sitter spacetime

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ABSTRACT

Chaos is an emergent phenomenon in a wide variety of nonlinear scenarios, and we will demonstrate that the scalar field in AdS is no exception. We will give numerical evidences for the presence and properties of chaos in AdS. The presence of chaos in AdS is critical to understand the thermalization process because the chaotic behaviour may prevent the field to collapse to a black hole.