

# Asymptotic Behavior of the coupled Klein-Gordon-Schrödinger systems on compact manifolds

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## Abstract

This paper is concerned with a 2-dimensional Klein-Gordon-Schrödinger system subject to two types of locally distributed damping on a compact Riemannian manifold  $\mathcal{M}$  without boundary. Making use of unique continuation property, the observability inequalities, and the smoothing effect due to Aloui, we obtain exponential stability results.

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