

## Quasi-normal Modes for Spin 3/2 Fields

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This paper aims to calculate the quasi normal modes for spin-3/2 fields of black holes, since spin-3/2 fields can be thought of as vector fields whose components are spinors we can use Camporesi and Higuchi's results as a starting point. This project will then determine the stability of micro ultra-spinning black holes. We will then use this information to calculate the emission spectrum of a micro spinning black holes. Since it has been theorised that during collisions at the LHC micro black holes are formed, we hope to use the results of this to paper to detect these black holes.

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