

Chaotic Dynamic Comparison of Kerr-like and Hartle-Thorne Spacetimes

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In this contribution, we compare the dynamics of the phase portrait for spacetimes with three parameters namely mass, spin, and mass quadrupole. The metrics we chose are the Kerr-like with mass quadrupole and the Hartle-Thorne. Both spacetimes represent an object slightly deformed: prolate and oblate. The comparison is realized through Poincaré sections and rotation numbers.

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