

# PHYSICS AND ASTRONOMY SEMINAR

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### “Anomalous Hydrodynamics Kicks Neutron Stars”

#### Abstract

Observations show that, at the beginning of their existence, neutron stars are accelerated briskly to velocities of up to 1000 km/s.

We will discuss possible mechanisms contributing to these kicks in a systematic effective theory framework. Anomalies of the underlying microscopic theory result in chiral transport terms in the