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Superradiance in stars

Superradiance in black holes is reasonably well-understood but superradiance in stars has received comparatively little attention. This is surprising given the ease with which we can observe isolated neutron stars and the array of signatures which would result from stellar superradiance. I will discuss the opportunities and challenges of stellar superradiance for detecting axions and other light bosons, and present the first systematic pipeline for computing superradiance rates in rotating stars.

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