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Superradiance in Binaries

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One of the most astounding predictions of General Relativity is the existence of Black Holes. They are known to be possible places to probe the existence and nature of Dark Matter. Black Hole binaries are also expected to serve as detectors of this matter, but the lack of solutions to Einstein's field equations makes it hard to study how in fact these systems interact with this matter. We must then find alternative ways of studying this systems. By means of the fluid dynamics - GR connection, we aim at developing toy models that might give us some insight into the behaviour of such complex systems.

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