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Superradiance and binary inspirals

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Ultralight bosons may be spontaneously produced by a rotating black hole through a process known as superradiance. This creates a “cloud” around the black hole that can manifest its presence in a variety of ways. In the past few years, scientists in Amsterdam and at GRAPPA have led the effort of understanding the imprint left by such a cloud in a black hole binary inspiral. In this talk, I will review the main results of this endeavor, as well as present new developments that will allow a more realistic and general description of these systems.

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