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Analogue of superradiance effect in acoustic black hole in the presence of disclination

In this work we investigate the possibility of the acoustic analogue of a phenomenon like superradiance, that is, the amplification of a sound wave by reflection from the ergo-region of a rotating acoustic black hole in the fluid “draining bathtub” model in the presence of a disclination be amplified or reduced in agreement with the value of the deficit angle.

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