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Superradiance or total reflection?

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The evolution of a massless scalar field on Kerr background is considered. In particular, the time evolution of initial data specifications with compact support in the distant region is investigated. The inward sent wave packet is tuned to maximize the effect of superradiance. Evidences are shown indicating that instead of the occurrence of energy extraction from black hole the inward sent radiation fail to reach the ergoregion rather it suffers total reflection.