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Aula T2 (UB)

Decay estimates for the Balian-Low theorem

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ABSTRACT:

In this joint work with S. Nitzan (Weizmann Institute), we investigate the joint time-frequency localization of functions generating Gabor Riesz bases on the integer lattice. The classical Balian-Low theorem restricts the simultaneous time and frequency localization of such functions. We obtain a quantitative estimate which extends both this result and other related theorems.