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New results about quasi-periodic Schrödinger operators with Liouville frequencies

It has been known since 1970's that one-dimensional discrete quasi-periodic Schroedinger operators with Liouville frequencies don't have eigenvalues. The talk is dedicated to two recent extensions of that result: one of them generalizes it to the multi-dimensional setting (joint work with Arkadi Nemirovski); the other, in a slightly and inevitably weaker form, - to the case, where the sampling function on the torus (which, together with the vector of frequencies and a point of the torus, defines the potential) is only required to be Borel measurable.