





Robust construction of Wannier functions

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Abstract: Wannier functions have found broad applicability in condensed matter physics as a way of representing spectral subspaces of Schrödinger operators by localized functions, but standard algorithms to construct them require an initial guess. I will describe an algorithm based on recent theoretical developments that does not require any physical input. Joint work with E. Cancès, G. Panati and G. Stoltz.