Summary: We proved that quasiperiodic Schrödinger operators with unbounded potentials $H_{\alpha, \theta}u_n = u_{n+1} + u_{n-1} + \frac{\delta(\alpha, \theta; f, g)}{f(\alpha+\theta)+g}$ have purely singular continuous spectrum on the set $\{E : 0 < L(E) < \delta(\alpha, \theta; f, g)\}$, where $\delta$ is an explicit function and $L$ is the Lyapunov exponent. We assume that $f, g$ are Hölder continuous functions and $f$ has finitely many zeros with weak non-degenerate assumptions. Moreover, we show that for generic $\alpha$ and a.e. $\theta$, the spectral measure of $H_{\alpha, \theta}$ has full spectral dimension and packing dimension.

MSC:

47Axx General theory of linear operators
47Bxx Special classes of linear operators

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