

Semiclassical states of nonlinear Schrodinger equations with critical growth

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Resumo:

In this talk, we consider the semiclassical states of the singularly perturbed problems with critical growth. By the variational approach, we prove the existence of spikes around the local minimal point or saddle point of the potential $V(x)$. In particular, the monotonicity of $f(s)/s$ or the Ambrosetti-Rabinowitz condition is not required.