

# Critical points for a functional involving critical growth of Trudinger-Moser type

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## Resumo:

We establish the existence of critical points of least energy for functionals associated with a class of singular quasilinear elliptic equations involving critical growth of Trudinger-Moser type. For this, in line with the Concentration-Compactness Principle due to P. -L. Lions, we study the lack of compactness of Sobolev imbedding in Orlicz space defined in  $\mathbb{R}^n$  ( $n \geq 2$ ).