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In this talk, we will show some recent results related to existence of solutions for a class of elliptic equation of the type

$$\begin{cases} -\Delta u + u = g(x, u) & \text{in } \Omega \\ \qquad u = 0 & \text{on } \partial\Omega \end{cases}$$

where $\Omega \subset \mathbb{R}^N$ $(N = 2)$ is bounded domain and $g(x, u)$ has an exponential critical growth at infinity.

This is a joint work with L. R. Freitas.