

Uniqueness of minimal energy solutions in a ball

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In this talk we consider the problems

$$-d^2u + u = u^{\frac{N+2}{N_2}} \quad \text{in } B, u > 0 \quad \text{in } B, \frac{\nu}{=} 0 \quad \text{on } B,$$

Where B is a ball in \mathbb{R}^N . For all small $d > 0$, we show uniqueness (up to rotation of the one-bubbling solution which concentrates at a point of the boundary).