



آگهی سخنرانی

On Semilinear Elliptic Equations in Unbounded Domains

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چکیده

In this series of talks, starting with a presentation of basic back ground material on semilinear elliptic equations in bounded domains of \mathbb{R}^N ($N \geq 3$), we will review some of the approaches developed in the last couple of decades to deal with such problems posed in unbounded domains or the whole space \mathbb{R}^N . The methods of radial functions, bounded domain approximation, weight function introduction, concentration compactness principle of Lions and some other ad hoc techniques will be discussed. Furthermore in each case we will present an example, taken from recent research articles, that will show case their utility in proving existence results for semilinear elliptic equations in the whole space \mathbb{R}^N .

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