

## Multiplicity of multi-bump type nodal solutions for a class of elliptic problems in $\mathbb{R}^N$

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Abstract. In this lecture, we will talk about the existence and multiplicity of multi-bump type nodal solutions for a class of elliptic problems of the type

$$-\Delta u + (\lambda V(x) + 1)u = f(u), \quad u > 0 \quad \text{in } \mathbb{R}^N,$$

where  $N \geq 3$ ,  $\lambda \in (0, \infty)$ ,  $f$  is a continuous function with subcritical growth and  $V : \mathbb{R}^N \rightarrow \mathbb{R}$  is a continuous function verifying some hypotheses.

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