

# Embedding properties for weighted Sobolev spaces in unbounded domains

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In this talk we are concerned with the embedding properties for several kind of functional spaces in  $\mathbf{R}^N$ . We will consider the functional spaces called weighted Sobolev spaces with some weight functions. If we choose some suitable growing functions in the weight functions, we can derive the continuity and compact embedding for these functional spaces. We also obtain the sufficient conditions for the weight functions to show the above properties. Our method is mainly owed to usual Sobolev's inequality.

## *References*

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