

# Some recent results on the homotopy type of embedding spaces

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The purpose of this talk is to describe some recent results on the homotopy type of embeddings spaces such as knot spaces: the space of embeddings of  $S^1$  in  $S^n$  or spaces of ‘long’ embeddings of  $R$  in  $R^n$ . Actions of little cubes operads on these spaces will be described, as well as what is known about the homotopy type of these embedding spaces as cubes-objects. Most of the talk will focus on the knot spaces for  $n = 3$ . Some recent insights into the embedding spaces for  $n > 3$  due to the Goodwillie-Weiss Calculus will also be briefly described.