

1135-VM-1985      **Jinling Niu\*** (niu jinling@hit.edu.cn) and **Yuming Xing**. *Imbedding Theorems for Composition of Homotopy and Projection Operators.*

We prove both local and global imbedding theorems with  $L^\varphi$ -norms for the composition of the homotopy operator and projection operator applied to differential forms. We also establish some  $L^\varphi$ -norm inequalities for certain compositions of the related operators. (Received September 25, 2017)