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**Rupert L Frank** and **Tianling Jin\*** (tianlingjin@ust.hk), Clearwater Bay, Kowloon 000000, Hong Kong, and **Jingang Xiong**. *On the best constants and minimizers for the fractional Sobolev inequality in domains.*

We consider a version of the fractional Sobolev inequality in domains and study whether the best constant in this inequality is attained. For the half-space and a large class of bounded domains we show that a minimizer exists, which is in contrast to the classical Sobolev inequalities in domains. (Received July 19, 2017)