

***A LIOUVILLE THEOREM FOR A CLASS OF FRACTIONAL
SYSTEMS IN \mathbb{R}^N_{+}***

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Abstract: We investigate a class of fractional elliptic systems of the form. Applying the iteration method and the direct method of moving planes for the fractional Laplacian, without any decay assumption on the solutions at infinity, we prove the Liouville theorem of nonnegative solutions under some natural conditions.