

## **Convergence of the fractional Yamabe flow for a class of initial data**

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**Abstract.** This work is a follow-up on the work of the second author with P. Daskalopoulos and J. L. Vázquez [12]. In this latter work, we introduced the Yamabe flow associated to the so-called fractional curvature and proved some existence result of mild (semi-group) solutions. In the present work, we continue this study by proving that for some class of data one can prove actually convergence of the flow in a more general context. We build on the approach in [27] as simplified in the book of M. Struwe [30].

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