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Armin Schikorra* (armin@pitt.edu), Thackeray 301, Pittsburgh, PA 15260, and **Jean Van Schaftingen**. *Measuring the Hopf Degree in fractional Sobolev Spaces*.

The degree of a map between two spheres of same dimension can be estimated by Sobolev norm of said map (of the right class). In this talk I will discuss to what extent this is possible for the Hopf degree as well – and why the estimate we have is “analytically optimal” but probably not “topologically optimal”. Joint work with J. Van Schaftingen. (Received January 13, 2019)