

Powers of linear operators in Banach spaces

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The presentation will begin with a basic introduction into the theory of powers of linear operators in Banach spaces. We will learn about expected but also very surprising results in the field. In the second part of the talk we are going to concentrate on the so called harmonic extension approach as it was (re-) discovered by Silvestre and Caffarelli in the case of the Laplacian and summarise some results about it.