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Semigroups. A tool to unify powers of operators.

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Along the talk we shall consider powers of the following operators: the Laplace operator in \mathbb{R}^n , the discrete Laplace in the integers and the derivative on the line. Our purpose is to show that a language of semigroups can be used to get a unified description of all these operators. Original results in each case will be presented.

Keywords: semigroups, fractional operators.

Mathematics Subject Classification 2000: 35K10, 35B45, 42B37

References

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