

*Selected papers*

**Differential Operators on Graphs and Waveguides**

Graz, February 25 – March 1, 2019.

*Special editors*

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The conference “Differential Operators on Graphs and Waveguides” was held at the Graz University of Technology, Austria, on February 25 – March 1, 2019. The aim of the conference was to present and discuss recent results on differential operators posed on metric graphs and domains with waveguide-like geometry. Subjects ranged from spectral and scattering theory, asymptotic analysis and homogenization, to singular interactions and random models.

With more than 50 participants from all over Europe and overseas, the scientific program consisted of 10 invited lectures and 31 contributed talks. A social program was offered to the participants, which included a welcome party, a guided walk through Graz, and a conference dinner. More detailed information is available from the conference web page

<https://www.math.tugraz.at/diffop2019>

This special issue of “Operators and Matrices” comprises papers written by participants of the conference. We sincerely wish to thank the referees for their help to improve the quality of these papers, and Joseph Ball who, as an one of the Editors-in-Chief of “Operators and Matrices”, made it possible that these proceedings are published as a special issue.

It is a pleasure to acknowledge the hospitality and support of Graz University of Technology and the substantial additional financial support for the conference “Differential Operators on Graphs and Waveguides” received from the

- FWF Austrian Science Fund
- AVL List GmbH
- City of Graz

Last but not least we thank all participants for their contributions and for making the conference “Differential Operators on Graphs and Waveguides” an interesting and pleasant event.

*Jussi Behrndt and Andrii Khrabustovskyi*