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Educational Curriculum	2009 Diploma in Mathematics, Dresden University of Technology, Dresden, Germany 2012 Ph.D. in Mathematics, Chemnitz University of Technology, Chemnitz, Germany
Professional Experience	2005 to 2009 Research Assistant at Dresden University of Technology 2009 to 2012 Research Associate at Chemnitz University of Technology 2012 to today Senior Researcher at Hamburg University of Technology 2015 to 2016 Visiting Professor at University of Munich
Current research interest	<ul style="list-style-type: none"> <li>- Evolution equations</li> <li>- Strongly continuous semigroups</li> <li>- Dirichlet forms</li> <li>- Operators on (metric) graphs</li> <li>- Spectral theory</li> </ul>
Publications	<p>C. Seifert, J. Voigt: <i>Dirichlet forms for singular diffusion on graphs</i>. Oper. Matrices 5, no. 4, 723-734 (2011).</p> <p>C. Schubert, C. Seifert, J. Voigt, M. Waurick: <i>Boundary systems and (skew-)self-adjoint operators on infinite metric graphs</i>. Math. Nachr. 288, No. 14–15, 1776–1785 (2015).</p> <p>H. BelHadjAli, A. BenAmor, C. Seifert, A. Thabet: <i>On the construction and convergence of traces of forms</i>. Submitted. ArXiv-Preprint: 1706.08314.</p>

**Singular diffusion on graphs with “sticky” vertices**

Abstract of the talk (10 lines):

We consider singular diffusion on metric graphs, motivated by modelling particles moving in a network according to a “speed measure” which describes the possible locations of the particles as well as the speed the particles can move with. We aim for an analytic description via self-adjoint operators for which we impose suitable coupling conditions at the vertices of the graph, and also classify the couplings leading to self-adjoint generators of positive and submarkovian semigroups

that is the corresponding form is a Dirichlet form. We will also explain that these forms describing singular diffusion are indeed traces of Dirichlet forms.