Diffusion in networks with time-dependent coefficients

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We will present a time-dependent diffusion problem taking place on edges of a finite network. Using form-methods for non-autonomous Cauchy problems on Hilbert spaces we will investigate well-posedness of the problem. We will also discuss the qualitative behavior of the solutions. This is a joint work with W. Arendt, D. Dier, H. Laasri, and D. Mugnolo.