

## High order selfadjoint operators and domain perturbation

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We will consider some high order (mainly fourth order) selfadjoint elliptic operators with different boundary conditions and will analyze their behavior when the domain is perturbed. We will obtain conditions for the stability of these operators with Dirichlet and Neumann boundary conditions. We will also pay special attention to the more delicate “intermediate” boundary condition and its behavior when the boundary presents some oscillatory behavior. This is a joint work with Pier D. Lamberti, Univ. of Padova, Italy.