$\mathcal{PT}$-symmetric Robin boundary conditions

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We summarize the results on Hamiltonians with $\mathcal{PT}$-symmetric Robin boundary conditions: one-dimensional toy model, $\mathcal{PT}$-symmetric waveguide, and $\mathcal{PT}$-symmetric models in curved manifolds. The similarity to self-adjoint and normal operators is discussed. New interpretation of the $\mathcal{PT}$-symmetric Robin boundary conditions in quantum mechanics will be presented.

New results are based on a joint work with D. Krejčiřík and H. Hernandez-Coronado.