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Extending Reduced Basis Method to Systems Solved by Black-Box ODE Solvers

The Reduced Basis Method has been quite successful for reducing fully-discretized system of parametric partial differential equations. However, not much is known in terms of applying it to a semi-discretized system of ordinary differential equations, solved by standard black-box solvers, like `ode45,ode15s`, etc. We intend to investigate the question of how *a posteriori* error estimation can be achieved for such systems.

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