

# Mesh adaptivity and error estimates for optimal control problems and multiple quantities of interest

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In this talk, we derive goal-oriented error estimates and mesh adaptivity for multiple quantities of interest for optimal control problems with nonlinear constraints [4, 5]. We apply the dual-weighted residual method [1] to the reduced formulation, and combine several quantities of interest following the ideas in [2, 3]. The localization is done by integration per parts. Finally, we conclude with the  $p$ -Laplace with  $p = 10$  as numerical example.

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## References.

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