

On a posteriori error estimation for non-conforming methods

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In the talk, it will be discussed how functional type error estimates can be applied to the estimation of the accuracy of approximate solutions obtained by nonconforming methods (e.g., by Discontinuous Galerkin Method). The main idea consists of that using a certain mapping to the conforming space we can obtain directly computable lower and upper bounds of the approximation error in the so-called "broken" norm.