A GRADIENT RECOVERY OPERATOR BASED ON AN OBLIQUE PROJECTION

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Abstract. We present a construction of a gradient recovery operator based on an oblique projection, where the basis functions of two involved spaces satisfy a condition of biorthogonality. The biorthogonality condition guarantees that the recovery operator is local.

Key words. gradient recovery, a posteriori error estimate, biorthogonal system

AMS subject classifications. 65N30, 65N15, 65N50

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