## Grzegorz Lewicki Strong unicity criterion in some space of operators

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**Abstract:** Let X be a finite dimensional Banach space and let  $Y \subset X$  be a hyperplane. Let  $\mathcal{L}_Y = \{L \in \mathcal{L}(X,Y) : L \mid_{Y} = 0\}$ . In this note, we present sufficient and necessary conditions on  $L_0 \in \mathcal{L}_Y$  being a strongly unique best approximation for given  $L \in \mathcal{L}(X)$ . Next we apply this characterization to the case of  $X = l_{\infty}^n$  and to generalization of Theorem I.1.3 from [12] (see also [13]).

**Keywords:** best approximation, strongly unique best approximation, approximation in spaces of linear operators

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