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## THE MOORE-PENROSE INVERSE OF A LINEAR COMBINATION OF COMMUTING GENERALIZED AND HYPERGENERALIZED PROJECTORS\*

MARINA TOŠIĆ<sup>†</sup>, DRAGANA S. CVETKOVIĆ-ILIĆ<sup>†</sup>, AND CHUNYUAN DENG<sup>‡</sup>

**Abstract.** In this paper, some representations for the Moore-Penrose inverse of a linear combination of generalized and hypergeneralized projectors are found. Also, the invertibility for some linear combinations of commuting generalized and hypergeneralized projectors is considered.

**Key words.** Idempotent, Projector, Generalized projector, Hypergeneralized projector, Moore-Penrose inverse.

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<sup>&</sup>lt;sup>†</sup>University of Niš, Faculty of Sciences and Mathematics, Serbia (marinatosic@ymail.com,

dragana@pmf.ni.ac.rs). Supported by grant no. 174007 of the Ministry of Science and Technological Development, Republic of Serbia.

<sup>&</sup>lt;sup>‡</sup>School of Mathematical Sciences, South China Normal University, Guangzhou 510631, P.R. China (cydeng@scnu.edu.cn). Supported by the National Natural Science Foundation of China under grant no. 11171222 and the Doctoral Program of the Ministry of Education under grant no. 20094407120001.