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Ilya M Spitkovsky*, ims2@nyu.edu, imspitkovsky@gmail.com. *On operators from the algebra generated by two orthogonal projections.*

A canonical representation of a pair of orthogonal projections was obtained by Halmos in his "Two subspaces" paper as early as 1969. I will discuss several new results which either were obtained by using this representation or can be sharpened with its help. (Received September 17, 2017)