Electronic Journal of Linear Algebra ISSN 1081-3810
A publication of the International Linear Algebra Society
Volume 15, pp. 154-158, May 2006

ELA
http://math.technion.ac.il/iic/ela

ON POLYNOMIALS IN TWO PROJECTIONS*

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Abstract. Conditions are established on a polynomial f in two variables under which the equality $f(P_1, P_2) = 0$ for two orthogonal projections P_1, P_2 is possible only if P_1 and P_2 commute.

Key words. Orthogonal projections, Polynomial equations.

AMS subject classifications. 15A24, 47A05.

*Received by the editors 27 December 2005. Accepted for publication 28 April 2006. Handling Editor: Harm Bart.

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