

SUR UNE CLASSE DE FORMES BIQUADRATIQUES SEMI-DÉFINIES POSITIVES *

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Résumé. Poursuivant l'étude des formes biquadratiques semi-définies positives sur $\mathbb{R}^m \times \mathbb{R}^n$ nous caractérisons celles qui se décomposent en la somme de carrés de formes bilinéaires.

On a class of positive semidefinite biquadratic forms

Abstract. Continuing the study of positive semidefinite biquadratic forms on $\mathbb{R}^m \times \mathbb{R}^n$, we characterize those among them that are the sum of squares of bilinear forms.

Key words. Bilinear forms, Biquadratic forms, Positive operators, Completely positive operators.

AMS subject classifications. 11E25, 11E39, 15A63.

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