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Boris Shekhtman* (boris@math.usf.edu), Dept. of Mathematics, University of South Florida, Tampa, FL 33620. *Error formulas for multivariate interpolation.*

We discuss the existence of an error formula for multivariate interpolation of an "ideal form" suggested by Carl de Boor. We show that the very existence of such formula leads to some specific restrictions on an ideal basis that can be used in the formula. As an application, we provide a negative answer to one version of the question posed by de Boor regarding the existence of certain minimal error formulas for multivariate interpolation. (Received February 02, 2006)