

**Albuquerque, Nacib; Núñez-Alarcón, Daniel; Santos, Joedson; Serrano-Rodríguez, Diana Marcela**

**Absolutely summing multilinear operators via interpolation.** (English) Zbl 1331.46036  
*J. Funct. Anal.* 269, No. 6, 1636-1651 (2015).

In [*J. Funct. Anal.* 266, No. 6, 3726-3740 (2014; [Zbl 1319.46035](#))], *N. Albuquerque* et al. used an interpolative technique to prove the sharpness of a family of inequalities of which the multilinear Bohnenblust-Hille inequality is a particular case. In this paper, the authors introduce a variation of a class of multiple summing operators and, using the technique mentioned above, prove a more general inclusion result that encompasses other known ones and allows to recover the more recent estimates of the multilinear Bohnenblust-Hille constants. Among other possible applications, their main result also gives information about the growth of the constants of variants of the Bohnenblust-Hille inequality introduced in [*D. Nuñez-Alarcón* et al., *J. Funct. Anal.* 264, No. 1, 326-336 (2013; [Zbl 1264.46032](#))].

Reviewer: [Jamilson Ramos Campos \(João Pessoa\)](#)

**MSC:**

[46G25](#) (Spaces of) multilinear mappings, polynomials  
[47L22](#) Ideals of polynomials and of multilinear mappings in operator theory  
[47H60](#) Multilinear and polynomial operators

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**Keywords:**

[absolutely summing operators](#); [multilinear Bohnenblust-Hille inequality](#); [multiple summing operators](#)

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