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Christian Horacio Olivera*, colivera@ime.unicamp.br, Campinas, Brazil, and **Pedro Jose Catuogno**. *Tempered Generalized Functions Algebra via Hermite Expansions*.

The space of tempered distributions \mathcal{S}' can be realized as a sequence spaces by means of the Hermite representation theorems In this work we introduce and study a new tempered generalized functions algebra(point value, embedding, Fourier analysis, etc) based in the Hermite representation. (Received January 29, 2008)