

CODEMA 2022

**BOOK OF
ABSTRACTS**

Ohrid, September 25-28, 2022

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SOME OTHER PRODUCTS OF DISTRIBUTIONS IN COLOMBEAU ALGEBRA

Marija Miteva, Limonka Koceva Lazarova

Abstract. In this paper we obtain some products of distributions in Colombeau algebra. The differential algebra $\mathcal{G}(\mathbf{R})$ of Colombeau generalized functions contains the space $\mathcal{D}'(\mathbf{R})$ of Schwartz distributions as a subspace and is the most relevant algebraic construction for dealing with singular distributions.

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