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On introduction of two diffeomorphism invariant Colombeau algebras

Comment.Math.Univ.Carolinae 45,4 (2004) 615-632.

Abstract: Equivalent definitions of two diffeomorphism invariant Colombeau algebras introduced in [7] and [5] (Grosser et al.) are listed and some new equivalent definitions are presented. The paper can be treated as tools for proving in [8] the equality of both algebras.

Keywords: Colombeau algebra of generalized functions, representative, diffeomorphism invariance

AMS Subject Classification: 46F, 46F05