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Piotr Mikusiński* (piotrm@mail.ucf.edu), PO Box 161364, Orlando, FL 32816-1364.

Boehmians on Manifolds.

The construction of Boehmians on a manifold requires a commutative convolution structure. We formulate conditions under which such a construction is possible. The language of locally compact groups provides a very natural setting for the construction. This method generalizes the idea used by Piotr Mikusiński and Mitsuo Morimoto in a construction of Boehmians on the N -dimensional sphere where the convolution algebra of continuous functions defined on the group of rotations of the sphere was used. (Received September 29, 2000)