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Analytic Lie pseudogroups of infinite type

We will first review Elie Cartan's construction of the generalized Maurer–Cartan equations for Lie pseudogroups of infinite type. We will then show how to construct charts for isotropy subgroups in terms of convergent infinite products of exponentials of vector fields chosen in a suitable bounded filtered basis. The existence of such a basis follows from an estimate of Malgrange, which is central to his proof of the Cartan–Kaehler Theorem.