

THE BOREL PROPERTY IN LOCALLY INTEGRABLE STRUCTURES (JOINT WORK
WITH R.BAROSTICHI AND G.PETRONILHO)

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Abstract: In this talk we present the Borel property for smooth solutions to systems of complex vector fields associated to locally integrable structures. Inspired by a recent work due to Lamel-della Sala , in which the Borel property was studied for generic submanifolds of the complex space, we shall prove similar results in this more general set up. In particular we obtain, for the case of corank one structures, a necessary and sufficient condition for the validity of the Borel property. The problem of the Gevrey-Borel property will also be discussed.