

Deformation of foliations with a first integral and Abelian and iterated integrals

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I will give two very expository talks explaining how Abelian and iterated integrals appear in deformations of foliations with a first integral. The talks are mainly for students and non-experts in this area. The first talk is dedicated to the appearance of Abelian integrals. In particular, I will explain how the limit cycle of the poster of the conference is produced. The second talk is dedicated to the appearance of iterated integrals.