

Poisson and generalized Kaehler structures

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Resumo/Abstract:

I will review definitions, examples and basic properties of generalized complex and generalized Kahler structures. Then I will prove part of Gualtieri's (also Liu, Weinstein and Xu) theorem on deformations of generalized complex structures and Goto's theorem on deformations of generalized Kahler structures. The main consequence of these theorems in practice is that holomorphic Poisson structures yield interesting examples of generalized complex and generalized Kahler manifolds.