Generalized geometry for 3-manifolds

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Abstract:

Generalized complex geometry offers a unifying approach to complex and symplectic structures. Moreover, there are generalized complex manifolds that are neither complex nor symplectic, but any of them must be almost complex and hence even-dimensional. In this talk I will discuss how Bn-generalized geometry, the simplest variation of generalized geometry, provides a similar framework for manifolds of any dimension and I will especially focus on the case of 3-manifolds, which is recent joint work with J. Porti.