

1086-53-1557 **Daniele Grandini*** (grandini.math@gmail.com), 6704 Los Prados Rd NW, Albuquerque, NM
87114. *Holomorphic Poisson cohomology and generalized complex geometry*. Preliminary report.

In the talk I will present holomorphic Poisson cohomology from the point of view of generalized complex geometry. Holomorphic Poisson structures can be seen as extended deformations of complex manifolds and holomorphic Poisson Cohomology can be interpreted either as a “deformed Dolbeault Cohomology” or a “generalized Dolbeault Cohomology”. I will focus on the holomorphic Poisson spectral sequence (i.e., the spectral sequence that computes the Poisson cohomology) and show its relation to the Hodge-deRham spectral sequence. The talk is based on my current work with Yat-Sun Poon. (Received September 23, 2012)