Foliations, Poisson structures and residues.

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Abstract: In this talk we will study relations between the residues defined for Poisson structures on a complex manifold in [GP] and the Baum Bott residues [BB] assigned to its symplectic foliation. In order to clarify the context we are going to discuss some preliminaries involving foliations and Poisson manifolds. This is part of a joint work in progress with Matías del Hoyo and Federico Quallbrunn.

References:

[GP] Gualtieri, Marco; Pym, Brent. Poisson modules and degeneracy loci. Proc. Lond. Math. Soc. (3) 107 (2013), no. 3, 627--654.

[BB] Baum, Paul; Bott, Raoul. Singularities of holomorphic foliations. J. Differential Geometry 7 (1972), 279--342.