Wednesday November 19th, 2008 from 5:15 to 6:15 PM
In room AAC 006

To be followed by discussion

“The Flux Homomorphism and the Hamiltonian Group in Different Settings”

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Abstract:

The group of Hamiltonian diffeomorphisms of a symplectic manifold is the kernel of the symplectic flux homomorphism. Analogous objects appear in several other geometric settings, like that of a locally conformally symplectic manifold, presymplectic 2-form, Poisson manifold, foliated manifold or symplectic groupoid, but also in the algebraic setting of a Lie algebra 2-cocycle. Central or abelian extensions of the Hamiltonian group, similar to the central extension provided by the Kostant-Souriau geometric prequantization, can also be found in some cases.