



WESTFÄLISCHE
WILHELMS-UNIVERSITÄT
MÜNSTER

Mathematische Institute der WWU – Kolloquium Wilhelm Killing

Mp^c -structures, quantization and symplectic Dirac operators

Professorin Simone Gutt (Université libre de Bruxelles)

19.04.2012, 16:30 Uhr, Hörsaal M 5

Symplectic spinors were introduced by Kostant for geometric quantization. To define his spinors, he needed a metaplectic structure, a notion which is topologically the same as admitting a spin structure. This rules out important examples of symplectic manifold such as CP^2 . Dirac operators were defined in that context by Habermann. Rawnsley and Robinson showed how to use instead Mp^c -structures (the symplectic analogue of $Spin^c$) for which there is no obstruction. We shall recall what are those groups, how to construct and parametrize Mp^c -structures and define the corresponding Dirac operators.

Tee wird ab 16:00 Uhr im Sitzungszimmer SR o des Mathematischen Instituts serviert.

Fachbereich 10
Mathematik und Informatik
<http://wwwmath.uni-muenster.de>

