

Phi⁴ measures on compact Riemannian 3-manifolds

Ismaël Bailleul
(University of Brest)

I will explain in this talk what are the difficulties one has to bypass to construct the Phi⁴ measure on a 3-dimensional Riemannian manifold. Its construction provides the first example of a non-perturbative 'Euclidean' quantum field theory in a curved background.