Operator algebras conference in memory of Étienne Blanchard

ID de Contribution: 16

Type: Abstract

Around the functional equation

lundi 8 avril 2019 10:30 (50 minutes)

The functional equation for the Riemann zeta function is based on analysis of asymptotic behaviour for t ≈ 0 of expression like $\operatorname{Tr}(\exp(-zD^2))$, where D is, say, an elliptic operator on a smooth closed manifold M. In particular, it depends heavily on the the fact that the expressions like $\operatorname{Tr}(\exp(-zD^2))$ have Melin transform which is holomorphic on a subspace of the complex plane of the form $\operatorname{Re}(z) > C$, which is a consequence of finite dimensionality of M. We will construct an analogue of the meromorphic extension of the Riemann zeta function and prove the corresponding functional equation in the infinite dimensional limit case.

Auteur principal: NEST, Ryzsard (Univ. Copenhagen)

Orateur: NEST, Ryzsard (Univ. Copenhagen)