## Hadamard renormalised scalar field theory on anti-de Sitter space-time.

Carl Kent, University of Sheffield, UK

## **Abstract**:

In this talk, I will look at a real massive free quantum scalar field with arbitrary curvature coupling on \$n\$-dimensional anti-de Sitter space-time. I will show how analytical expressions of the vacuum expectation value of the stress-energy tensor are obtained using Hadamard renormalisation.