Title: Flat-Space Holography

Daniel Grumiller - Vienna University of Technology – Austria

Abstract:
The holographic principle relates quantum gravity in d+1 dimensions to quantum field theories in d dimensions. It is realized in string theory within the AdS/CFT correspondence. If the holographic principle is correct, then it must apply also to situations beyond AdS/CFT. The simplest option is flat Minkowski spacetime. Thus, it is natural to ask if a flat-space holographic correspondence can be established. In my talk I describe recent progress towards flat-space holography.