SAIKIA MANIMUGDHA, University of Western Ontario
Restrictions of holomorphic sections to products

In this talk, we explore how quantum states relate to subsets of a product of two compact connected Kahler manifolds. We shall introduce a few concepts from quantum information theory, such as separable and entangled quantum states. Then, we shall see a particular way to associate quantum states with subsets using the techniques of geometric quantization. In the end, we shall present a result which states that the quantum states associated this way are separable when the subset is a finite union of products.