

# Scalar and spinor wave equations in Kerr geometry

Niky Kamran

*Department of Mathematics & Statistics*

*Burnside Hall*

*McGill University*

*805 Sherbrooke W.*

*Montréal, Québec H3A 2K6, Canada*

## **Abstract**

We shall present some recent results on the long-time behavior of Dirac spinor fields and scalar fields in the Kerr space-time. These include sharp decay estimates in  $L_{\text{loc}}^\infty$ . This is joint work with Felix Finster, Joel Smoller and Shing-Tung Yau.