

Dynamical Decoupling of Unbounded Operators

*Dr Daniel Burgarth
Macquarie University*



Quantum technology is an exciting new area with huge potential for research and economy. A main hurdle, however, is noise, because quantum states are much more sensitive to disturbances than classical states. Ultimately error correction will overcome it, but for the next decade, with the technology still in its infancy, it's important to find physics based methods to reduce noise. Dynamical decoupling is a promising technique to this end. The key hypothesis of this talk is that the mathematical modelling of the underlying noise has been inadequate till date. A first step is taken to fix this, guiding us into rather technical questions of mathematical physics

When:	Wednesday 20 th February
Time:	2pm
Where:	L1, Seminar Room 107, 10 College Walk