

**RAL Lecture on the 20th Anniversary
of the Isaac Newton Institute for Mathematical Sciences, Cambridge**

Pickavance Lecture Theatre

3 pm, Tuesday 2nd October 2012

Classical holonomy; some physics of round trips

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Holonomy effects are familiar in everyday life. Swimming, for example, is a repetitive change of body shape with the express purpose of achieving a non-repetitive effect - a translational shift (but can you swim in frictionless water?). They also have privileged status in the grand theories of the 1900s, relativity and quantum mechanics. But I'll explore some classical instances of holonomy dating from (or at least which could have dated from) the 1800s, if not earlier, back to Newton.

All are welcome

Coffee from 2:30 pm in front of the Lecture Theatre