## 01.11 On quantum Floquet theorem

Dmitry Treschev

Steklov Mathematical Institute of RAS, Moscow

I study a quantum particle on a circle in the force field of a periodic in time potential. The corresponding Schrödinger equation is a linear differential equation on the Hilbert space H of square integrable functions on the circle. I prove that the monodromy operator for this system is a sum of a diagonal operator and a compact one.