

Theoriekolloquium

Am **12. April 2018** um **14.15 Uhr** in **W2 1-143** hält

Herr Prof. Dr. Nick Manton (Cambridge)

einen Vortrag mit dem Titel

Skyrmions: Fields, Geometry and Nuclear Physics

The Skyrme model is a field theory of interacting pions. Its nonlinearity and topological features give rise to solitons - Skyrmions – that can be identified with baryons. The basic Skyrmion of baryon number 1, quantized to have spin half, models a proton or neutron. Skyrmions with larger baryon numbers model larger nuclei. A wide variety of geometrically interesting Skyrmion solutions are now known, up to baryon number over 100. Some, but not all, resemble clusters of the Skyrmion version of an alpha particle. I will discuss in some detail research to understand the ground and excited states of Carbon-12, using Skyrmion solutions of baryon number 12.

Interessierte sind herzlich eingeladen.

gez. Prof. Dr. Jutta Kunz