

› Allgemeines Physikalisches Kolloquium

› Verleihung des Lehrpreises

› Donnerstag, 11.07.2019 um 16 Uhr c.t.

Raffaella Busse

Westfälische Wilhelms-Universität Münster



One night at the South Pole

- A story of neutrinos, kerosene and polar lights

The South Pole is one of the most extreme environments of this planet. Temperatures can plummet to -80°C , making it so hostile to life that not even penguins dare to venture that far into the vast desert of ice in the middle of the Antarctic continent. During the eight months of austral winter, the Amundsen-Scott South Pole Station is isolated from the rest of the world, being inhabited by only a small intrepid crew called the "winterovers".

But the extreme cold, the darkness and the isolation only make up one side of the experience - a unique community, the magic of a very special place, and fascinating science the other. The South Pole is home to the IceCube South Pole Neutrino Observatory, that looks for the origins of high-energy cosmic particles from the bottom of the Earth. This presentation is about the life and work of an IceCube winterover, and shall give a glimpse to the beauty of a place that only few of us will ever have the chance to encounter.