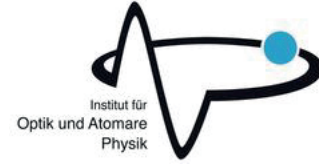
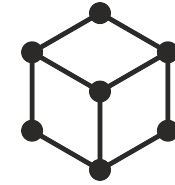


# Physikalisches Kolloquium



## Herr Prof. Dr. Markus Rapp

### “Weltraumwetter und seine Auswirkungen auf die Erde”

DLR Oberpfaffenhofen and DLR Neustrelitz, Germany; Ludwig Maximilians University Munich

The Solar-Terrestrial Physics deals with the state and dynamics of the coupled system Ionosphere-Thermosphere-Magnetosphere System of the Earth as it is driven by the Sun. Space Weather refers to the conditions on the Sun and in the solar wind, magnetosphere, ionosphere and thermosphere. Near the Earths it influences the performance and reliability of space-borne and ground-based technological systems, it can endanger the human life. Space Weather is known to lead to significant perturbations of modern communication and navigation systems, to risks on safety, economical losses and reduced life quality. It also operates on other critical infrastructures like electric power grids. We have to be aware of strong ionospheric and geomagnetic disturbances, which might induce large currents in networks which in turn have the potential to cause fatal disruption of the involved soft- and hardware. Most striking current scientific results in this research field will presented as well as an outlook on the midterm plans for building up this field: Space Weather Observations, Space Weather Impact and Solar-Terrestrial Coupling processes as they are in the focus of a just newly founded Institute of Solar-Terrestrial Physics in Neustrelitz in the North of Berlin.

Moderation: Prof. Dr. Jörg Büchner

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## Thursday, 19.12.19 · 16:15h · EW 202

Technische Universität Berlin · Institut für Theoretische Physik · Hardenbergstraße 36 · 10623 Berlin