

**PHYSICAL COLLOQUIUM
INVITATION**

Monday, 11.12.2017, 4.15 p.m., W2-1-148

speaks

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about

The influence of charge on the accretion process onto black holes

Accretion onto black holes is a fundamental astrophysical process as it gives rise to a large range of observational phenomena. To understand the general physical processes analytical models of accretion play a very important role. Here we consider the influence of charge in the accretion process. On the one hand, we consider a charged perfect fluid around a rotating black hole embedded in a large scale uniform magnetic field and analyse the resulting interesting equilibrium configurations. On the other hand, due to the no-hair theorem, black holes are characterised by mass, rotation, and charge. Although a net electric charge of astrophysical black holes is usually vanishingly small, we show that it may nevertheless have a noticeable influence on the accretion process.

All interested persons are cordially invited.

Sgd. Prof. Jutta Kunz