

Gemeinsame Veranstaltung von
Humboldt-Universität zu Berlin, Institut für Physik
(Theorie der Elementarteilchen / Computerorientierte Theoretische Physik)
DESY, Zeuthen

SEMINAR Feldtheorie auf dem Gitter und Phänomenologie der Elementarteilchen

Am Dienstag, dem **23. Oktober**, um **15:00 Uhr s.t.** spricht

Dr. **Axel Maas**

Slovak Academy of Sciences

zum Thema

Gluon confinement

Abstract

Gluons, as quarks, have not been detected as individual particles in experiments. A possible explanation is that gluons are not physical particles at all, as proposed in the framework of the confinement mechanism of Gribov and Zwanziger. Inside this framework, various predictions using functional methods on correlation functions have been made during the last decade. However, as approximations are involved in these calculations, investigations using lattice methods are indispensable.

After a presentation of the Gribov-Zwanziger framework and the predictions, various lattice investigations of the latter will be presented.

Ort: Humboldt-Universität zu Berlin, Institut für Physik
Newtonstraße 15, 12489 Berlin-Adlershof, **Raum 1'202**
(Lageplan: http://linde.physik.hu-berlin.de/images/lageplan_neu.gif)

Web: <http://www-zeuthen.desy.de/~stschaef/seminar/seminar.html>