

**FAKULTÄT für PHYSIK
LUDWIG-MAXIMILIANS-UNIVERSITÄT
MÜNCHEN/GARCHING**

**PHYSIK-DEPARTMENT
TECHNISCHE UNIVERSITÄT MÜNCHEN
MÜNCHEN/GARCHING**

MLL-KOLLOQUIUM

Donnerstag, 23.04.2015, 16¹⁵ Uhr

**Seminarraum 127, TUM, Physik II, Erdgeschoss/Nord
Treffen zum gemeinsamen Kaffee 16 Uhr**

**Prof. Helmut Satz
(Univ. Bielefeld)**

The Temperature of the Quark-Gluon Plasma

At sufficiently high energy density, strongly interacting matter is predicted to become a plasma of deconfined quarks and gluons. I analyze the behavior of heavy quark-antiquark bound states (quarkonia) in such a deconfined medium and show how the results can be used to determine the temperature of the quark-gluon plasma. The analysis is then applied to quarkonium production experiments in high energy heavy ion collisions.

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