FAKULTÄT für PHYSIK
LUDWIG-MAXIMILIANS-UNIVERSITÄT
MÜNCHEN/GARCHING

PHYSIK-DEPARTMENT
TECHNISCHE UNIVERSITÄT MÜNCHEN
MÜNCHEN/GARCHING

MLL-KOLLOQUIUM

Donnerstag, 02.11.2017, 16^{15} Uhr

Hörsaal der LMU in Garching, Am Coulombwall 1
Treffen zum gemeinsamen Kaffee 16 Uhr

Dr. Hee-Sok Chung

(Physik Department T30f, TUM)

Collinear Factorization Approaches to Heavy Quarkonium Production

Collinear factorization theorems of QCD are widely used in predictions for processes involving large momentum-transfer. Applications of these theorems range from exclusive and inclusive production of hadrons to production of heavy or energetic particles in high-energy hadron collisions. In exclusive and inclusive production of heavy quarkonia, collinear factorization theorems can be combined with effective field theories such as nonrelativistic QCD to constrain the nonperturbative degrees of freedom. In this presentation, I will discuss how collinear factorization theorems apply to heavy quarkonium production and consider factorization-violating effects related to the heavy quark mass.

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