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Heavy Flavor Tagged Photon Bremsstrahlung from AdS/CFT

Thursday, 6 July 2017 14:00 (20 minutes)

We compute for the first time the near-side photon bremsstrahlung spectrum associated with open heavy flavor propagating through a strongly-coupled quark-gluon plasma. We expect that this observable will show measurably distinguishable differences between the soupy slowdown in AdS/CFT compared to the sporadic stiff smacks from a weakly-coupled pQCD plasma gas. Assuming the heavy quark loses energy from the usual AdS/CFT drag setup we find that small angle photon radiation is suppressed in medium compared to vacuum while wide angle radiation is enhanced.

Apply to be
 considered for a student
   award (Yes / No)?

No

Level for award
 (Hons, MSc,
   PhD, N/A)?

N/A

Main supervisor (name and email)
and his / her institution

N/A

Would you like to
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Yes

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