

Some new results on high-energy "jet stopping" in AdS/CFT

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A very basic theoretical question is: How far does a high-energy excitation travel in a quark-gluon plasma, and how does that distance scale with energy? In weak coupling, the stopping distance scales with energy as $E^{1/2}$, up to logarithms. In strongly-coupled plasmas with gravity duals, theorists have found that the maximum stopping distance scales instead like $E^{1/3}$. In the latter case, we show that there can be an important distinction between typical and maximum stopping distances. For the strongly-coupled excitations we study, we find that the typical stopping distance scales as $E^{1/4}$.

Primary author: ARNOLD, Peter (University of Virginia)

Co-author: VAMAN, Diana (University of Virginia)

Presenter: ARNOLD, Peter (University of Virginia)

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