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## **Effect of magnetic field on quark energy loss from holography**

### **Summary**

We employ the AdS/CFT correspondence to study the jet quenching of heavy quarks and light quarks traversing in strongly coupled  $N=4$  supersymmetric Yang-Mills (SYM) plasma under the influence of a (constant) magnetic field. We perform the analysis using drag force, jet quenching parameter, falling string and shooting string, respectively. It is found that the effects of the magnetic field on the energy loss of light quarks and heavy quarks are consistent: the magnetic field enhances the quark energy loss. In particular, these effects are more obvious when the quarks are moving transverse to the magnetic field rather than parallel.

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