



# XXIV QUARK MATTER DARMSTADT 2014

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## Relating classical strings and gravitons in AdS/CFT jet quenching

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Here's a fun question in gravity: What happens when a high-momentum graviton falls into a large (AdS-)black hole? Answer: Tidal forces outside the black hole can stretch the graviton from a quantum string into a large, classical string. What does this have to do with theory investigations related to jet quenching in strongly coupled plasmas? It provides a link between two very different methods that have been used to set up "jet stopping" problems in such plasmas—methods which have given parametrically different results.

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