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String Theory in Greater Paris

Rencontres Théoriciennes

"Supergravité, théorie des cordes et théorie M"

Jeudi 2 Octobre 2014, 11:45

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IPhT

Effect of the deformation operator in the D1D5 CFT

The D1D5 CFT is a holographic dual of a near-extremal black hole in string theory. The process of black hole formation in the bulk is dual to a process of thermalization in the CFT. It is desirable to have a detailed understanding of this thermalization process. The interaction in the CFT involves a twist operator which joins together different copies of a free CFT. I will describe recent results which derive the effect of this interaction when it links together CFT copies with winding numbers M and N to produce a copy with winding M+N, populated with excitations of a particular form. These results are a step towards understanding the thermalization process in the D1D5 CFT.

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