

**Institut Henri Poincaré**  
11 rue Pierre et Marie Curie, 75231 Paris cedex 05  
**String Theory in Greater Paris**

**Rencontres Théoriciennes**  
**“Supergravité, théorie des cordes et théorie M”**

*Jeudi 6 Novembre 2025, 11:30*

**Dominik Neuenfeld**

*University of Würzburg*

**The Flat Limit of AdS Coupled to a Bath**

*In this talk I'll explain how to take a well-defined flat-space limit of brane models of AdS coupled to a non-gravitating bath. In the dual BCFT this amounts to a triple-scaling limit where both the number of boundary degrees of freedom and the boundary coupling are taken to infinity while the BCFT boundary piecewise approaches a lightcone. The resulting construction offers a new approach to study the relation between the flat limit of AdS and Carrollian/Celestial CFT, as well as the potential to carry over ideas from AdS/CFT to flat space. I will discuss some implications for entanglement entropy in flat space, in particular the fact that two different notions of entanglement entropy arise on  $\text{scri}$ , depending on whether one traces out modes which have left through  $\text{scri}$ .*

**Institut Henri Poincaré, salle 314, 3<sup>ème</sup> étage**

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<http://string.lpthe.jussieu.fr>  
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