Carrollian perspective on the flat limit of AdS/CFT

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The flat limit of AdS/CFT has been traditionally approached from the bulk perspective. In this talk, we will emphasize the role of boundary symmetries in this limit. It has been established that codimension one Carrollian correlation functions in the so-called delta function branch holographically encode the S-matrix in asymptotically flat spacetimes. Drawing inspiration from the codimension two Celestial holography, we will show how one can obtain these Carrollian correlators from a carefully prescribed flat limit of Witten diagrams in global AdS. Since Witten diagrams are bulk representations of CFT correlators, our prescription establishes a direct link between AdS holography and flat space holography. We illustrate this limit in various examples of spinning Witten diagrams in AdS$_4$. Based on arXiv:2303.07388 [hep-th] and arXiv:2311.11246 [hep-th].