

Talk Title: (A)dS in Bondi gauge

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Abstract: This talk will be based upon the work [1]. In this talk I will discuss how one extends the use of the Bondi gauge from the typical description of asymptotically flat spacetimes to spacetimes with a non-vanishing cosmological constant, namely asymptotically locally (anti)-de Sitter spacetimes ((A)dS). I will begin with a review of the Bondi gauge and its classical applications, as well as a reminder of asymptotically locally (A)dS spacetimes and the Fefferman-Graham gauge. I will then present recent results regarding the Bondi approach to (A)dS, including the general features of the asymptotic solutions to the field equations and alternative integration schemes for (A)dS. I will discuss the performed coordinate transformation from Bondi gauge to Fefferman-Graham gauge and use this to give a holographic interpretation of the Bondi quantities via the AdS/CFT correspondence.

References

- [1] A. Poole, K. Skenderis and M. Taylor, *(A)dS₄ in Bondi gauge*, [1812.05369](#).