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Physical properties of a quasi-Kinnersley tetrad FAN ZHANG, California Institute of Technology, JEANDREW BRINK, National Institute of Theoretical Physics, South Africa, BELA SZILAGYI, California Institute of Technology, GEOFFREY LOVELACE, Cornell University, and California State University Fullerton — Without fixing tetrad freedom, the physical interpretation of components of curvature tensors such as the Newman-Penrose Ψ_4 is ambiguous. Expanding on earlier literature on quasi-Kinnersley tetrads, we suggest a particular tetrad fixing procedure based on the characteristic structure of the Weyl tensor. This talk focuses on the physical properties of the resulting tetrad.

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