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The Double Copy in AdS3 from Minitwistor Space

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One of the main questions in the classical double copy is its precise realisation around curved spacetime. One can make progress using a recent twistor formulation of the double copy. In the case of topologically massive theories in curved spacetime, it can give rise to the previously known double copy of waves. However the curved spacetime alters the straightforward "equal mass" prescription to an unequal one, which has the advantage simplifying everything. Finally, it also enables to extend the double copy of these theories to warped black holes.

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