

String Dualities and Geometry



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AdS classifications

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I will review recent classification results about AdS_d compactifications in various dimensions. While the efforts in $d > 4$ were originally motivated by holography, several examples should be useful for flux compactifications, for example because of the simultaneous presence of back-reacted sources of different types. In AdS_7 we now have a one-line description of all possible solutions. In AdS_5 a large class is related to AdS_7 by compactification; among these, some interesting examples with “punctures” are starting to emerge. Finally, I will talk about classifying AdS_4 solutions with extended supersymmetry.

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