



AdS\$_3\$ and AdS\$_2\$ Magnetic Brane Solutions

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We investigate AdS\$_3\$ and AdS\$_2\$ magnetic brane solutions within the consistent truncation of AdS\$_5 \times S^5\$ supergravit y. The AdS\$_3\$ solution extends earlier work by allowing a general embedding of the magnetic U(1) in SO(6). We determine the ratio of strong- and weak-coupling entropies as a function of this embedding. Further, by considering crossed magnetic fields in different U(1) 's we are able to construct a solution that runs from AdS\$_5\$ in the UV to AdS\$_2 \times R^3\$ in the IR. We find the notable result that there is a zero temperature entropy at strong coupling but not at weak coupling. We also show that the AdS\$_2\$ solution and at least some of the AdS\$_3\$ solutions are stable within the truncation.

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