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Interface Flows in D1/D5 Holography

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We construct Kondo-like flows in the D1/D5 system. Within CFT, the Kondo effect is described via branes which acquire additional dimensions. Starting from the D1/D5 system, we have found the BPS solutions to the DBI system describing Kondo-like RG flows between D1- and D3-brane solutions. Using a class of half BPS solutions we find corresponding backreacted supergravity interface solutions for at both fixed points and confirm the g-theorem. Our approach provides an explicit example of a Kondo-like CFT defect, with an explicit gravitational dual.

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