Penguin loops in the Randall-Sundrum model

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The Randall-Sundrum model addresses the gauge and flavour hierarchy in a unified (extra-dimensional) framework. The model is, by itself, non-renormalizable. This makes predictions for loop-mediated observables a delicate issue. I will present a general strategy for computing penguin loops in the five-dimensional theory via a matching procedure onto a 4D Lagrangian with higher-dimensional operators. This allows us to obtain predictions for various precision observables such as anomalous magnetic moments or radiative flavour-changing transitions like $\mu \rightarrow e\gamma$.

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