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Simplified model for dark matter

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We look at a simplified model for dark matter interacting with quarks mediated by heavy colored scalars. In particular, we study the contribution from dark matter scattering against gluons from the nuclei, which arises at 1-loop. We determine relevant Wilson coefficients and also analyze the effects of RG Evolution on the same. We present our preliminary results and identify dominant contributions to dark matter - nucleon scattering.

Summary

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