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Charging dark matter up

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We consider a model for dark matter with a dark $U(1)$ charge and where the gauge mediator is described by a non-linear electromagnetic theory, being the Born-Infeld theory a paradigmatic example. These theories are equipped with a K-mouflage screening mechanism so that only at late times and on small scales will the dark electromagnetic force have a non-negligible effect. This scenario naturally leads to a cosmological evolution where the late-time universe is described by a Lemaitre inhomogeneous model. The potential role of this model regarding the H_0 tension will be discussed.

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