

In this talk, we first review the idea of mimetic gravity and show how dark matter naturally arises in this scenario in the cosmological background. We show that the setup is unstable at the level of perturbations and we will introduce some possible healthy extensions of this scenario. Replacing the scalar field with a general p -form, in the second part, we find a new mimetic theory and we particularly focus on the case of one-form gauge potential. This model is free of instabilities and provides an energy density which behaves like the spatial curvature in the cosmological background.