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Dark matter and the multiverse: WIMPs and axions

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The observed values of the cosmological constant and the abundance of dark matter can be understood, using certain measures, by imposing the anthropic requirement that density perturbations go non-linear and virialize to form haloes. This requires a probability distribution favoring low amounts of dark matter, i.e. low value of the axion scale f for the QCD axion and low values of the superpartner mass scale for LSP thermal relics.

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