

DFSZ Axions and Where to Find Them

Johannes Diehl, Emmanouil Koutsangelas

Phys. Rev. D 107 (2023) 095020

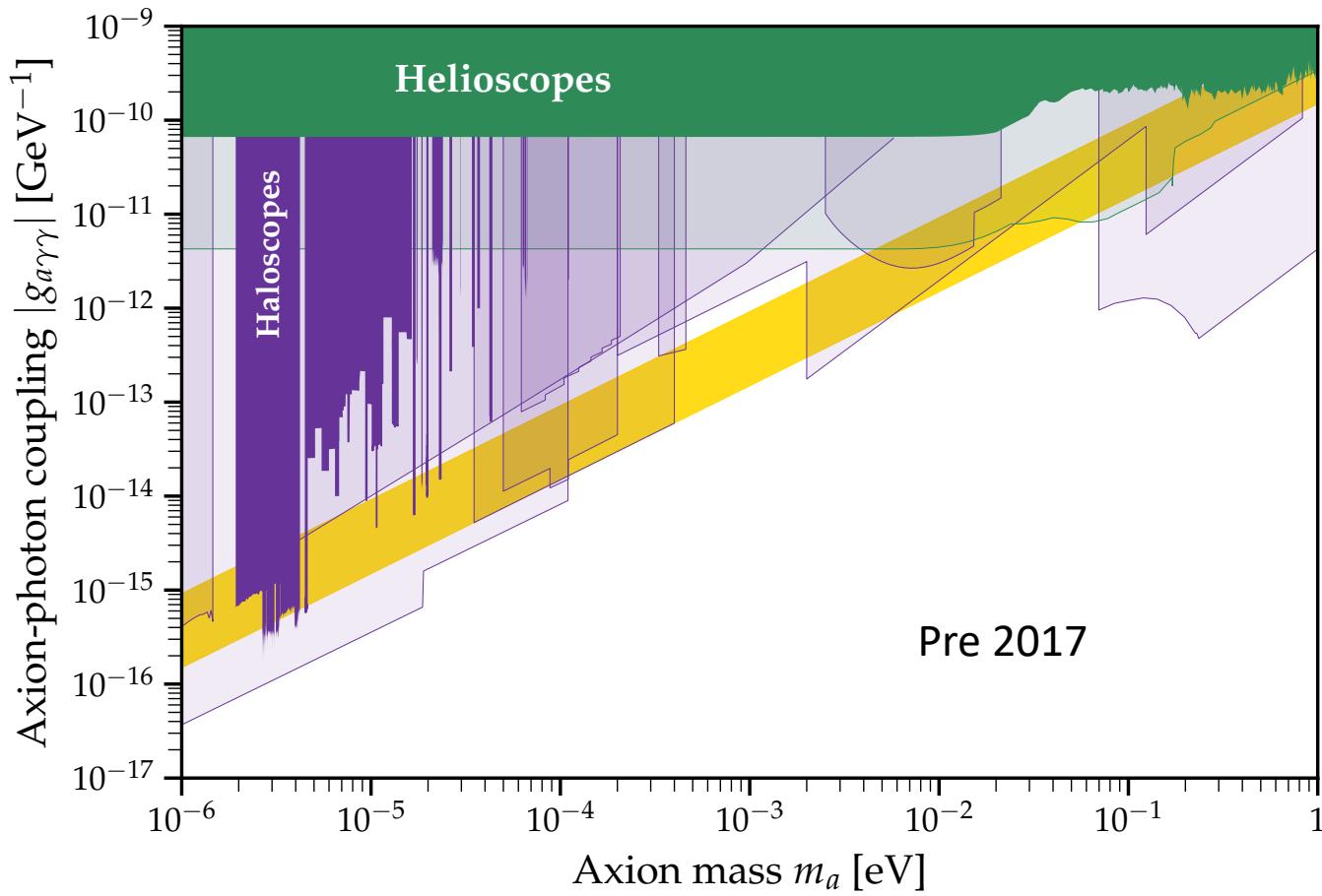
ArXiv: [2302.04667](https://arxiv.org/abs/2302.04667)

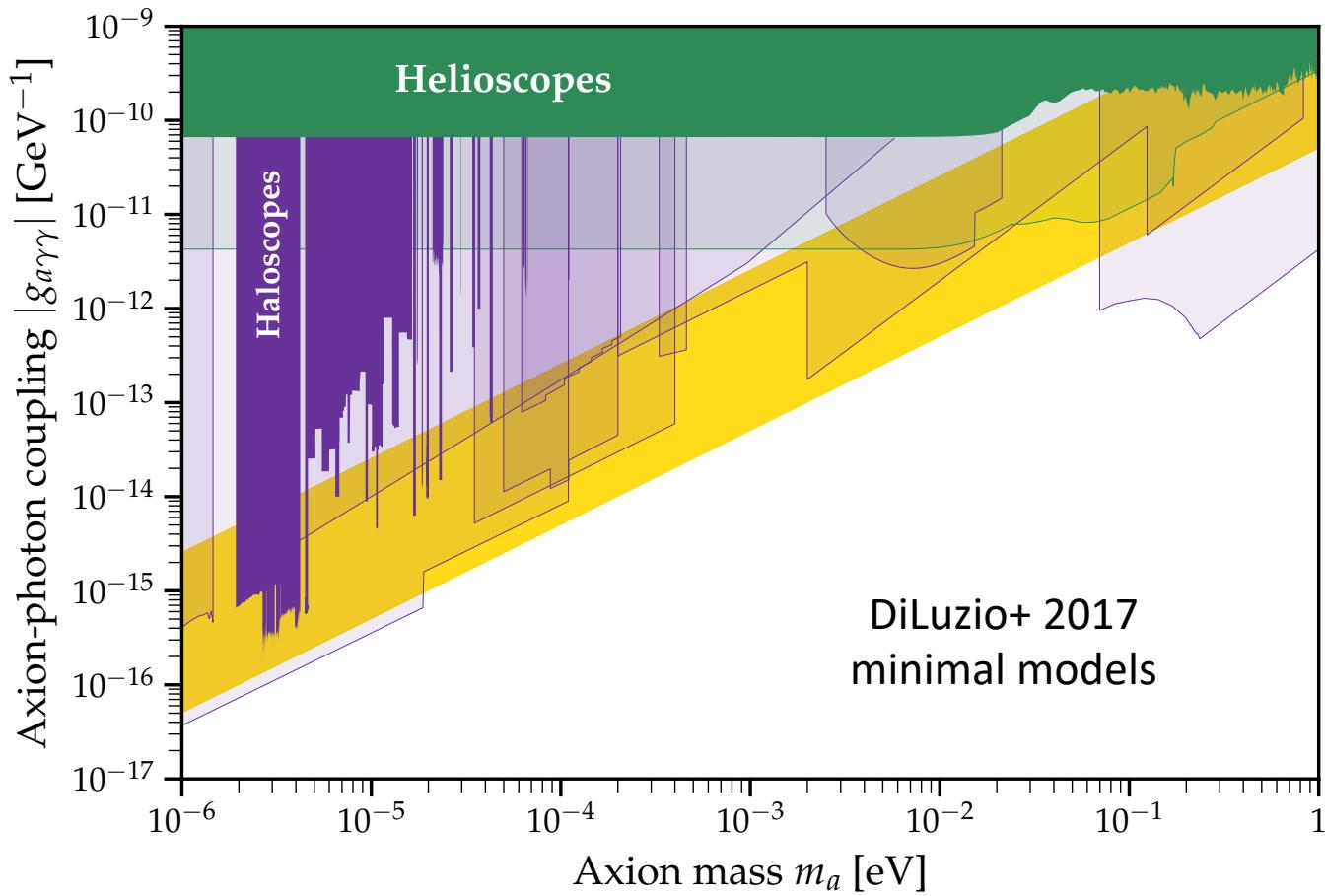
GitHub: [jhbdiehl/DFSZforest](https://github.com/jhbdiehl/DFSZforest)

Zenodo: [7620202](https://zenodo.7620202)



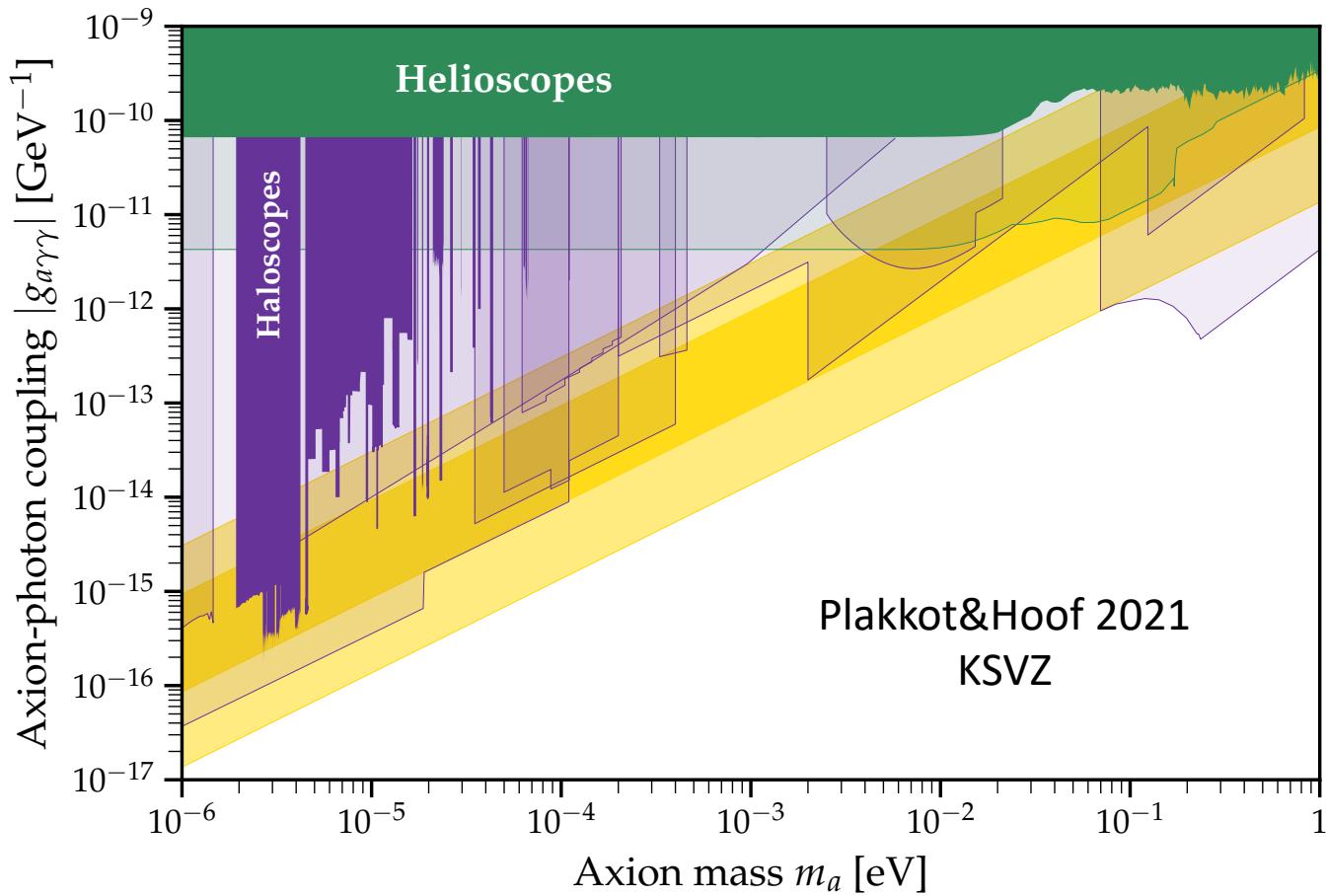
MAX PLANCK INSTITUTE
FOR PHYSICS





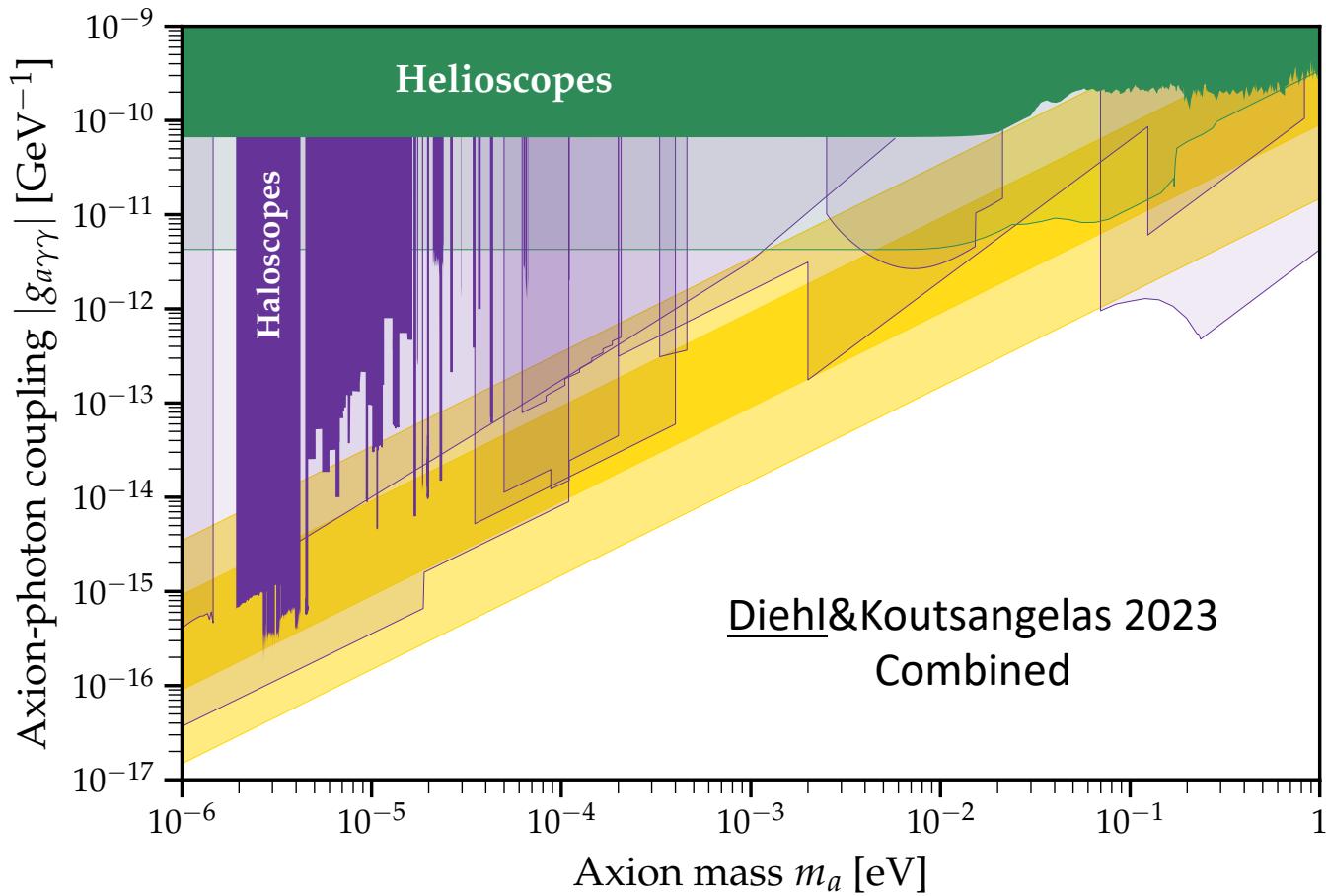
KSVZ: add 1 heavy Quark
DFSZ: add 1 Higgs doublet

DFSZ Axions and Where to Find Them



KSVZ: add ≤ 28 heavy Quarks

DFSZ Axions and Where to Find Them

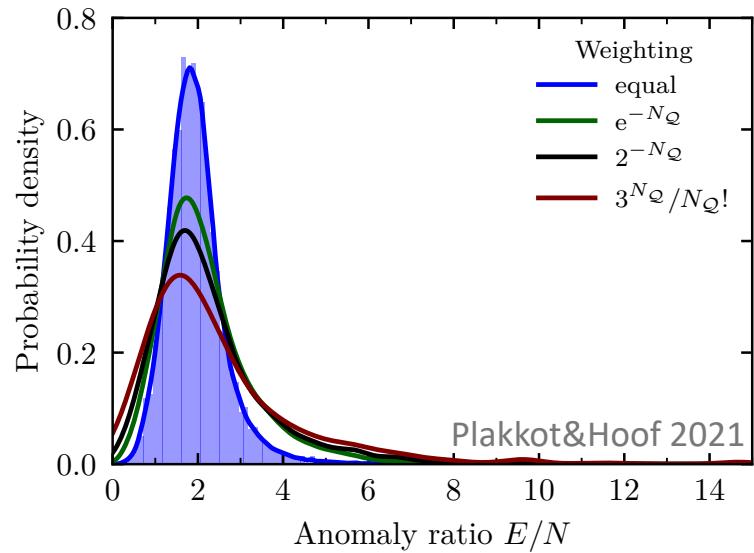


KSVZ: add ≤ 28 heavy Quarks

DFSZ: add ≤ 8 Higgs doublets

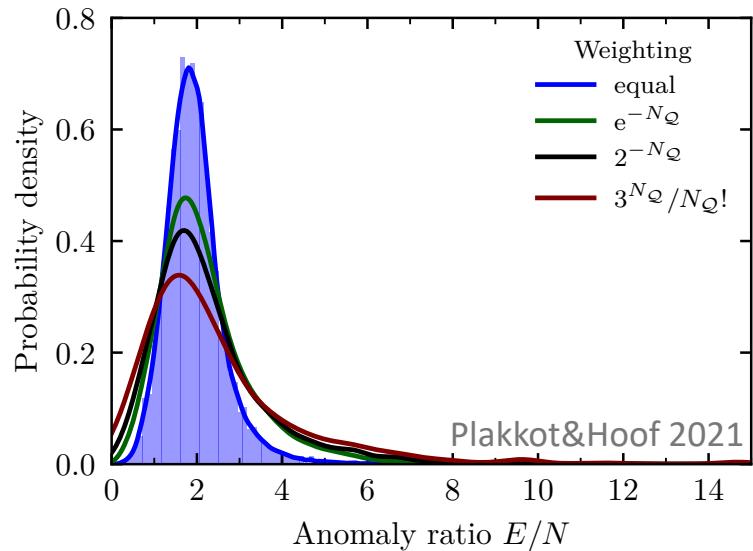
DFSZ Axions and Where to Find Them

Expectation



DFSZ Axions and Where to Find Them

Expectation



VS

Reality

