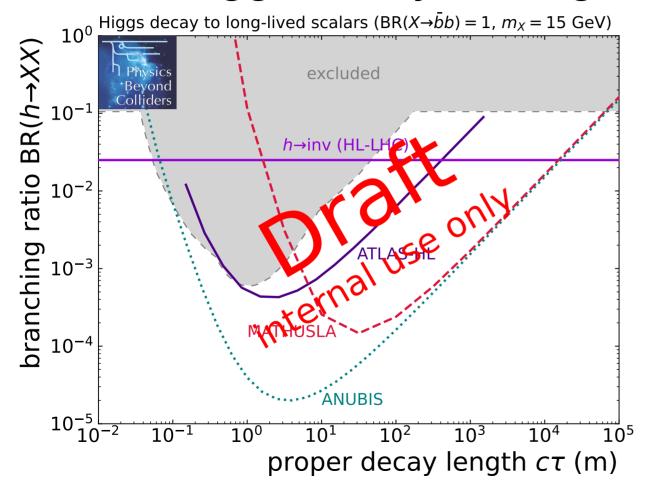
## Higgs decay to long-lived scalars



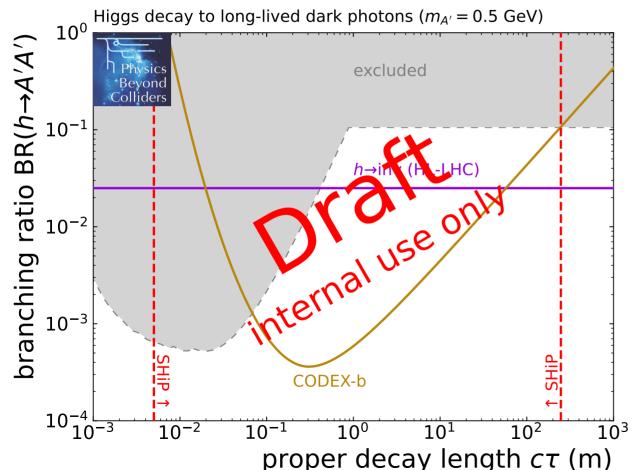
#### Note:

 ANUBIS projection obtained by interpolating between 10 GeV and 20 GeV

## Open questions:

 Is there a Codex-b curve that we can add to this plot?

# Higgs decay to long-lived dark photons



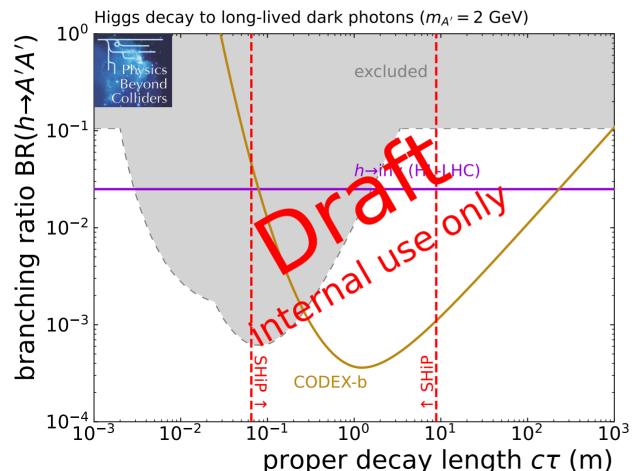
#### Note:

- ATLAS exclusion rescaled from 0.4 GeV to 0.5 GeV
- SHiP bound assumes dark photon production via kinetic mixing only

## Open questions:

 Is this a good showcase model for Codex-b?

# Higgs decay to long-lived dark photons



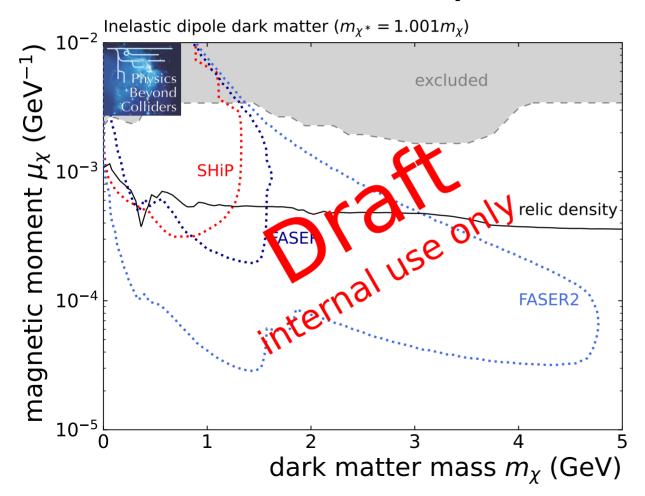
#### Note:

- No reinterpretation of ATLAS bound necessary
- CODEX-b bound obtained by rescaling (for now)
- No MATHUSLA/ANUBIS bounds available

## Open questions:

 Can we improve the sensitivity projection for SHiP including B decays?

## Inelastic dipole dark matter



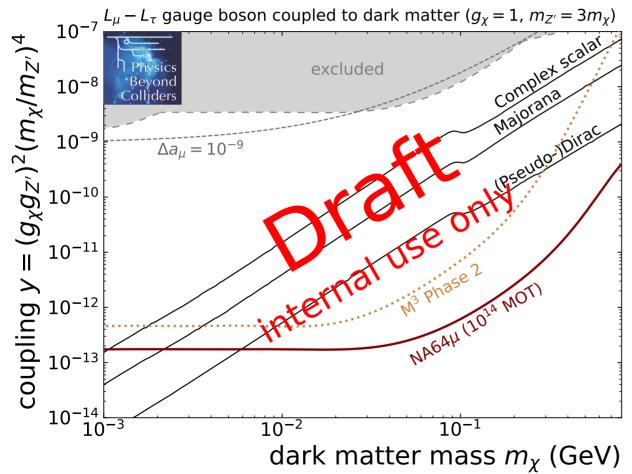
#### Note:

SHiP projection outdated

## Open questions:

Should we remove the SHiP projection or can we update it?

# $L_{\mu}-L_{\tau}$ gauge boson coupled to dark matter



#### Note:

 g – 2 line could become something like an upper bound if disagreement between theory and experiment disappears

## Open questions:

- Is anything missing?
- Are we happy to show M<sup>3</sup>?