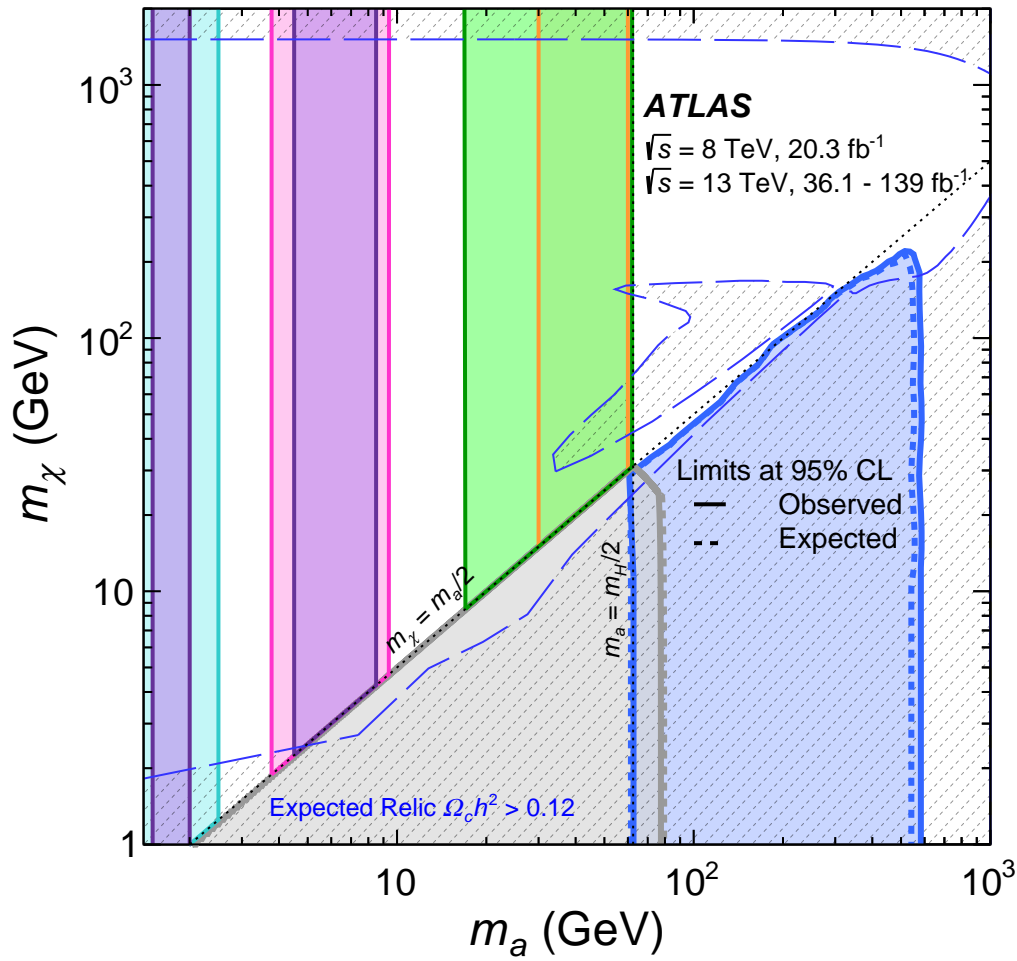


2HDM+a, Dirac DM, $\sin \theta = 0.35$, $\tan \beta = 1$, $g_\chi = 1$, $m_A = m_H = m_{H^\pm} = 1.2 \text{ TeV}$



- $E_\text{T}^\text{miss} + h(b\bar{b})$, 139 fb^{-1}
JHEP 11 (2021) 209
- $h \rightarrow \text{invisible}$, 139 fb^{-1}
arxiv:2301.10731
- $h \rightarrow aa \rightarrow \mu\mu\tau\tau$, 20.3 fb^{-1}
PRD 92 (2015) 052002
- $h \rightarrow aa \rightarrow \mu\mu\mu\mu$, 36.1 fb^{-1}
JHEP 06 (2018) 166
- $h \rightarrow aa \rightarrow \mu\mu\mu\mu$, 139 fb^{-1}
JHEP 03 (2022) 041
- $h \rightarrow aa \rightarrow bbbb$, 36.1 fb^{-1}
JHEP 10 (2018) 031
- $h \rightarrow aa \rightarrow bb\mu\mu$, 139 fb^{-1}
PRD 105 (2022) 012006
- Observed Relic $\Omega_c h^2 = 0.12$