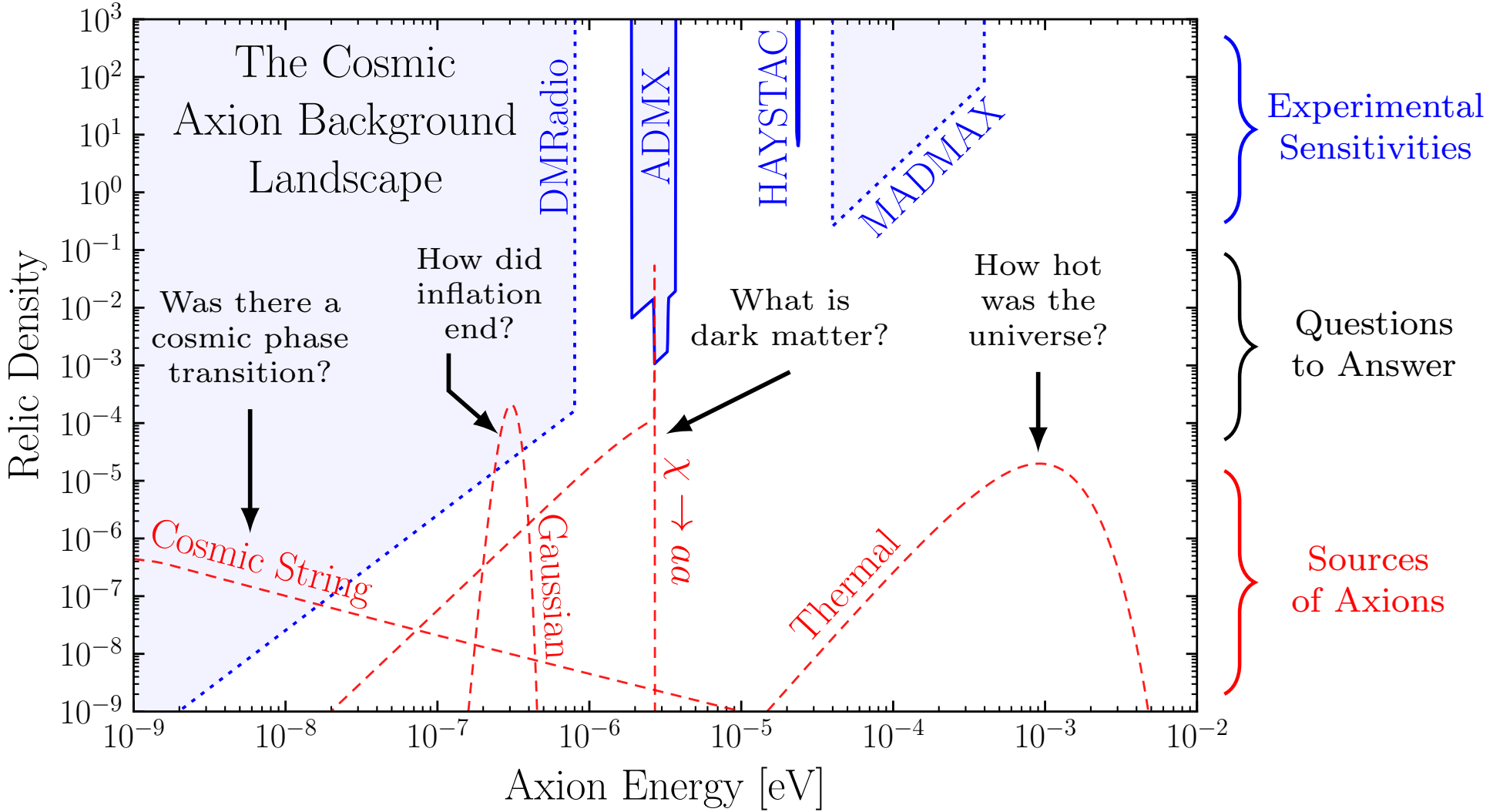
The Cosmic Axion Background Landscape
DMRadio
ADMX
HAYSTAC
MADMAX
Experimental Sensitivities
Was there a cosmic phase transition?
How did inflation end?
What is dark matter?
How hot was the universe?
Questions to Answer
Cosmic String
Gaussian
$\chi \to aa$
Thermal
Sources of Axions
Relic Density
Axion Energy [eV]
10^{3}
10^{2}
10^{1}
10^{0}
10^{-1}
10^{-2}
10^{-3}
10^{-4}
10^{-5}
10^{-6}
10^{-7}
10^{-8}
10^{-9}
10^{-9}
10^{-8}
10^{-7}
10^{-6}
10^{-5}
10^{-4}
10^{-3}
10^{-2}