Axion mass peV feV eV zeV aeV neV μeV meV **PQ Scale** [GeV] $10^{28} \, 10^{27} \, 10^{26} \, 10^{25} \, 10^{24} \, 10^{23} \, 10^{22} \, 10^{21} \, 10^{20} \, 10^{19} \, 10^{18} \, 10^{17} \, 10^{16} \, 10^{15} \, 10^{14} \, 10^{13} \, 10^{12} \, 10^{11} \, 10^{10} \, 10^9 \, 10^8 \, 10^7 \, 10^6 \, 10^{11} \, 10^{11$ Frequency = $m_a/2\pi$ μHz kHz MHz **GHz** mHzHzTHz PHz Coherence time > experiment duration Coherence time $\sim (m_a v^2)^{-1}$ 10⁴ yr century week hr min ms Coherence length ≫ experiment size Coherence length $\sim (m_a v)^{-1}$ R_{\oplus} R_{\odot} 100 km km pc cm BabyIAXO/RADES CADEX Twisted anyon cavity **ADMX** DANCE FLASH **ORGAN DarkGEO** QUAX **MADMAX CASPEr CMB Earth B-field** DALI **PTA** WISPLC **ALPHA** SRF **BRASS** LAMPOST BREAD **DMRadio** $10^{-22} 10^{-21} 10^{-20} 10^{-19} 10^{-18} 10^{-17} 10^{-16} 10^{-15} 10^{-14} 10^{-13} 10^{-12} 10^{-11} 10^{-10} 10^{-9} 10^{-8} 10^{-7} 10^{-6} 10^{-5} 10^{-4} 10^{-7} 10^{-1}$

Axion mass [eV]