

Figure 1: A plot showing the 2-sigma posterior of the gravitational wave background (GWB) and the SMBHB spectrum. The x-axis is $\log_{10}(f \text{ Hz})$ from -20 to 10. The y-axis is Ω_{GW} from 10^{-12} to 10^{-6} . A pink shaded region at the top represents the BBN Bound. A legend on the left lists 12 MG - Blue-tilted models with $m = 0.3H_{\text{inf}}$ and $\frac{\tau_m}{\tau_r} = 10^{21}$. The plot shows a blue shaded region for the 2-sigma posterior of the GWB, a dashed black line for the SMBHB spectrum, and a solid blue line for the MG - Blue-tilted model. The BBN Bound is indicated by a pink shaded region at the top.

