

	excluded region (in eV)	source	references
*	$5.2 \times 10^{-13} < m_S < 6.5 \times 10^{-12}$	Direct bounds from absence of spin down in Cyg X-1.	[1, 2]
*	$1.1 \times 10^{-13} < m_V < 8.2 \times 10^{-12}$		
*	$2.9 \times 10^{-13} < m_T < 9.8 \times 10^{-12}$		
	$6 \times 10^{-13} < m_S < 2 \times 10^{-11}$	Indirect bounds from BH mass-spin measurements.	[3, 4, 5, 6]
	$7 \times 10^{-20} < m_S < 1 \times 10^{-16}$		
*	$2 \times 10^{-14} < m_V < 1 \times 10^{-11}$		
*	$1 \times 10^{-20} < m_V < 9 \times 10^{-17}$		
*	$6 \times 10^{-14} < m_T < 1 \times 10^{-11}$		
*	$3 \times 10^{-20} < m_T < 9 \times 10^{-17}$		
	$1.2 \times 10^{-13} < m_S < 1.8 \times 10^{-13}$ m_V : NA m_T : NA	Null results from blind all-sky searches for continuous GW signals.	[9]
	$5.8 \times 10^{-13} < m_S < 8.6 \times 10^{-13}$ m_V : NA m_T : NA	Null results from searches for continuous GW signals from Cygnus X-1.	[10, 11]
	$2.0 \times 10^{-13} < m_S < 3.8 \times 10^{-13}$ m_V : NA m_T : NA	Negative searches for a GW background.	[12, 7, 13]
	$5 \times 10^{-13} < m_S < 3 \times 10^{-12}$ $m_V \sim 10^{-12}$ m_T : NA	Bounds from pulsar timing.	[14, 15]
	$2.9 \times 10^{-21} < m_S < 4.6 \times 10^{-21}$ $8.5 \times 10^{-22} < m_V < 4.6 \times 10^{-21}$ $1.0 \times 10^{-21} < m_T < 8.2 \times 10^{-21}$	Bounds from mass and spin measurement of M87 with EHT.	[16]

Table 1: Current constraints on ultralight bosons coming from the absence of effects predicted by the superradiant instability of compact objects. These bounds will be constantly updated online [17] as new results come out (“NA” means that the bound is not available yet, whereas an asterisk stands for bounds originally derived in this work based on previous results). The quoted bounds are typically at 1σ significance level, but some of them are affected by caveats discussed in the corresponding reference.

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