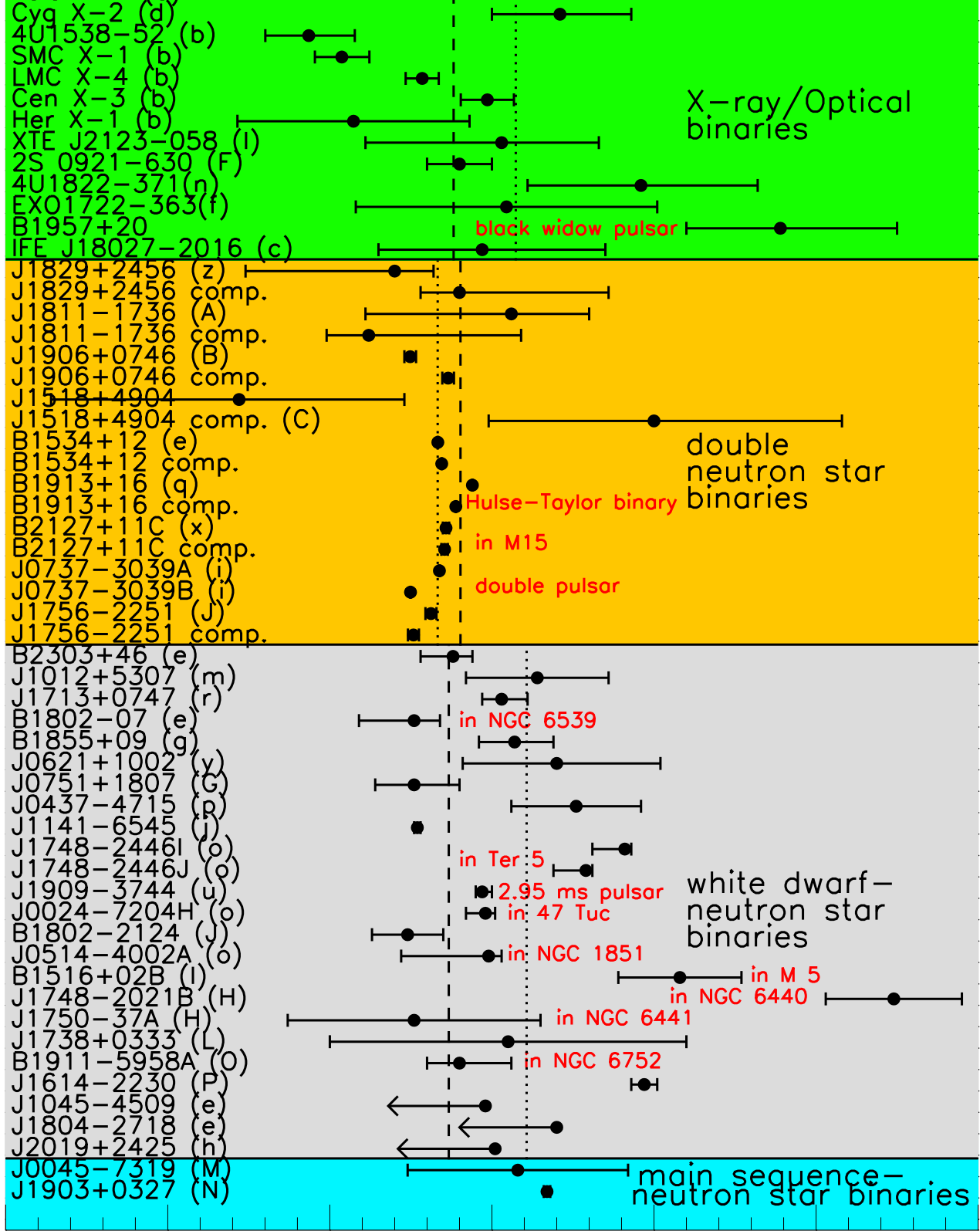


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0.0      0.5      1.0      1.5      2.0      2.5      3.0  
 Neutron star mass ( $M_{\odot}$ )

Table 1. Neutron Star Mass Measurements ( $1\sigma$  uncertainties)

Object	Mass ( $M_{\odot}$ )	Reference	Object	Mass ( $M_{\odot}$ )	Reference
<i>X-Ray/Optical Binaries</i>					
4U1700-377 <sup>†</sup>	$2.44^{+0.27}_{-0.27}$	a (1)	Vela X-1 <sup>‡</sup>	$1.770^{+0.083}_{-0.083}$	b (2)
Cyg X-2	$1.71^{+0.21}_{-0.21}$	d (3)	4U1538-52	$0.935^{+0.142}_{-0.134}$	b (2)
SMC X-1	$1.037^{+0.085}_{-0.085}$	b (2)	LMC X-4	$1.285^{+0.051}_{-0.051}$	b (2)
Cen X-3	$1.486^{+0.082}_{-0.082}$	b (2)	Her X-1	$1.073^{+0.358}_{-0.358}$	k (2)
XTE J2123-058	$1.53^{+0.30}_{-0.42}$	l (4; 5)	2S 0921-630	$1.4^{+0.1}_{-0.1}$	F (6)
4U 1822-371	$1.96^{+0.36}_{-0.35}$	n (7)	EXO 1722-363	$1.545^{+0.465}_{-0.465}$	f (8)
B1957+20	$2.39^{+0.36}_{-0.29}$	Q (9)	IGR J18027-2016	$1.47^{+0.38}_{-0.32}$	c (10)
mean = $1.574 M_{\odot}$ , weighted mean = $1.382 M_{\odot}$					
<i>Neutron Star - Neutron Star Binaries</i>					
J1829+2456 <sup>‡</sup>	$1.20^{+0.12}_{-0.46}$	z (11)	J1829+2456 (comp.)	$1.40^{+0.46}_{-0.12}$	z (11)
J1811-1736 <sup>‡</sup>	$1.56^{+0.24}_{-0.45}$	A (12)	J1811-1736 (comp.)	$1.12^{+0.47}_{-0.13}$	A (12)
J1906+0746	$1.248^{+0.018}_{-0.018}$	B (13)	J1906+0746 (comp.)	$1.365^{+0.018}_{-0.018}$	B (13)
J1518+4904	$0.72^{+0.51}_{-0.58}$	C (14)	J1518+4904 (comp.)	$2.00^{+0.58}_{-0.51}$	C (14)
B1534+12	$1.3332^{+0.0010}_{-0.0010}$	K (15)	B1534+12 (comp.)	$1.3452^{+0.0010}_{-0.0010}$	K (15)
B1913+16	$1.4398^{+0.0002}_{-0.0002}$	q (16)	B1913+16 (comp.)	$1.3886^{+0.0002}_{-0.0002}$	q (16)
B2127+11C	$1.358^{+0.010}_{-0.010}$	x (17)	B2127+11C (comp.)	$1.354^{+0.010}_{-0.010}$	x (17)
J0737-3039A	$1.3381^{+0.0007}_{-0.0007}$	i (18)	J0737-3039B	$1.2489^{+0.0007}_{-0.0007}$	i (18)
J1756-2251	$1.312^{+0.017}_{-0.017}$	J (19)	J1756-2251 (comp.)	$1.258^{+0.017}_{-0.017}$	J (19)
mean = $1.333 M_{\odot}$ , weighted mean = $1.403 M_{\odot}$					
<i>Neutron Star - White Dwarf Binaries</i>					
B2303+46	$1.38^{+0.06}_{-0.10}$	e (20)	J1012+5307	$1.68^{+0.22}_{-0.22}$	m (21)
J1713+0747*	$1.53^{+0.08}_{-0.06}$	r (22)	B1802-07	$1.26^{+0.08}_{-0.17}$	e (20)
B1855+09*	$1.57^{+0.12}_{-0.11}$	g (23)	J0621+1002	$1.70^{+0.10}_{-0.17}$	y (24)
J0751+1807	$1.26^{+0.14}_{-0.14}$	y (24)	J0437-4715	$1.76^{+0.20}_{-0.20}$	p (25)
J1141-6545	$1.27^{+0.01}_{-0.01}$	j (26)	J1748-2446I	$1.91^{+0.02}_{-0.10}$	o (27)
J1748-2446J	$1.79^{+0.02}_{-0.10}$	o (27)	J1909-3744	$1.47^{+0.03}_{-0.02}$	u (28)
J0024-7204H	$1.48^{+0.03}_{-0.06}$	o (27)	B1802-2124	$1.24^{+0.11}_{-0.11}$	R (29)
J0514-4002A	$1.497^{+0.008}_{-0.497}$	o (27)	B1516+02B	$2.08^{+0.19}_{-0.19}$	I (30)
J1748-2021B	$2.74^{+0.21}_{-0.21}$	H (31)	J1750-37A	$1.26^{+0.39}_{-0.39}$	H (31)
J1738+0333	$1.55^{+0.55}_{-0.55}$	L (32)	B1911-5958A	$1.34^{+0.08}_{-0.08}$	O (33)
J1614-2230	$1.97^{+0.04}_{-0.04}$	P (34)	J1045-4509	< 1.48	e (20)
J1804-2718	< 1.70	e (20)	J2019+2425	< 1.51	h (35)
mean = $1.607 M_{\odot}$ , weighted mean = $1.367 M_{\odot}$					
<i>Neutron Star - Main Sequence Binaries</i>					
J0045-7319	$1.58^{+0.34}_{-0.34}$	M (36)	J1903+0327	$1.67^{+0.01}_{-0.01}$	N (37)

<sup>†</sup> Could possibly be a black hole, due to lack of pulsations

<sup>‡</sup> Uses method of Ref. (20) to estimate companion mass \* Reflects binary period-white dwarf mass constraint from Ref. (38)