

What is the closest black-hole to the Sun?

GRO J1655-40

Bailyn et al. (1995b)
Greiner et al. (1995)
Orosz & Bailyn (1997)
Bianchini et al. (1997)
van der Hooft et al. (1998)
Hynes et al. (1998)
Shabbaz et al. (1999)
Kuulkers et al. (2000)
Green et al. (2001)
Beer & Podsiadlowski (2002)
Brocksopp et al. (2005)
and counting...

quote *Hjellming & Rupen (1995) Nature, 375, 464*

IAU Circ. 6062
"probability"
of **3.5 kpc**.

(VLBA observations)
Kinematic model of the jets
3.2 kpc

VLBI + ATCA obs.
Estimate 3-5 kpc

McKay & Kesteven (1994)
Tingay et al. (1995)
~~*Harmon et al. (1995)*~~

New method (Foellmi et al. 2006a):
D ~ 1.0 kpc

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Jonker & Nielemans (2004) cite:

Gies & Bolton
1982 & 1986

Shahbaz et al. (1994)
Barret et al. (1996)

Wu et al. (1983) → (1976) ↓

Cygnus X-1
only...

New method (Foellmi et al. 2006b):
D ~ 0.2 - 1.0 kpc

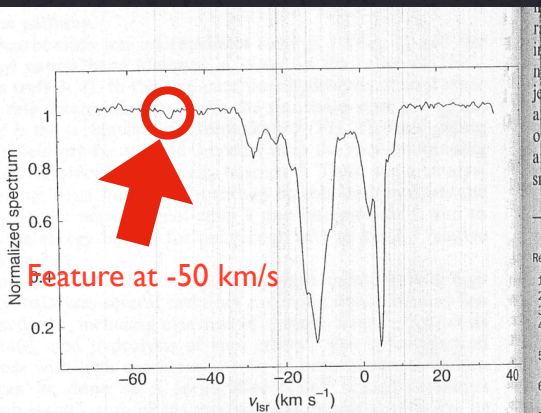
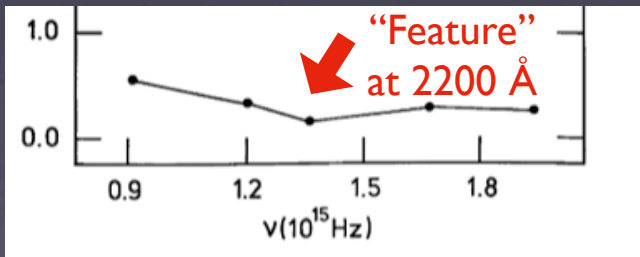
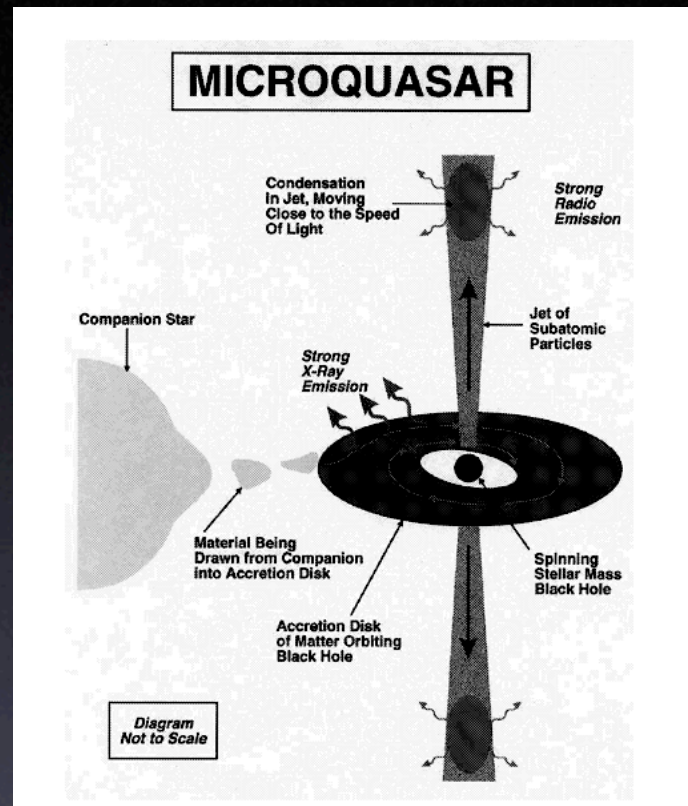
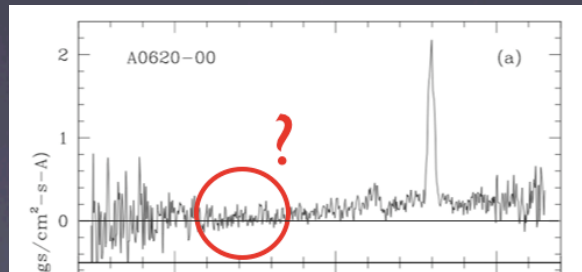


FIG. 2 The H I spectrum of GRO J1655-40 obtained from the Australia Telescope Compact Array at 6" resolution. Interpretation of the absorption features due to Galactic rotation and comparison of this profile with that of the nearby H II region CTB35A (ref. 9) give a probable distance of 3-5 kpc.