The Physics of Ultracompact Binaries 2, 2003, KITP, Santa Barbara

Hut 1982 tidal evolution, 1983 magnetic breaking, ..... Arzoumanian et al. 2002 kicks, Webbink 1984 CE:  $\alpha\lambda=1$ , Hurley et al. 2000 single star evolution, Fryer 1999 core collapse BH masses, Rappaport et al.

## **Formation-Kat**

number of binaries evolved:  $1.6 \times 10^6$ 

(solar metallicity:

outburst

per  $10^{10}L_{\odot}^{hlue}$ (Cappellaro et 0.86 per 100 yrs

al.

26.0 Galactic 0.4 2 % 54 % 46 % 88 % 1088 1069 19 Number 586 502 He-star donor BH accretor All systems NS accretor WD donor Binary











