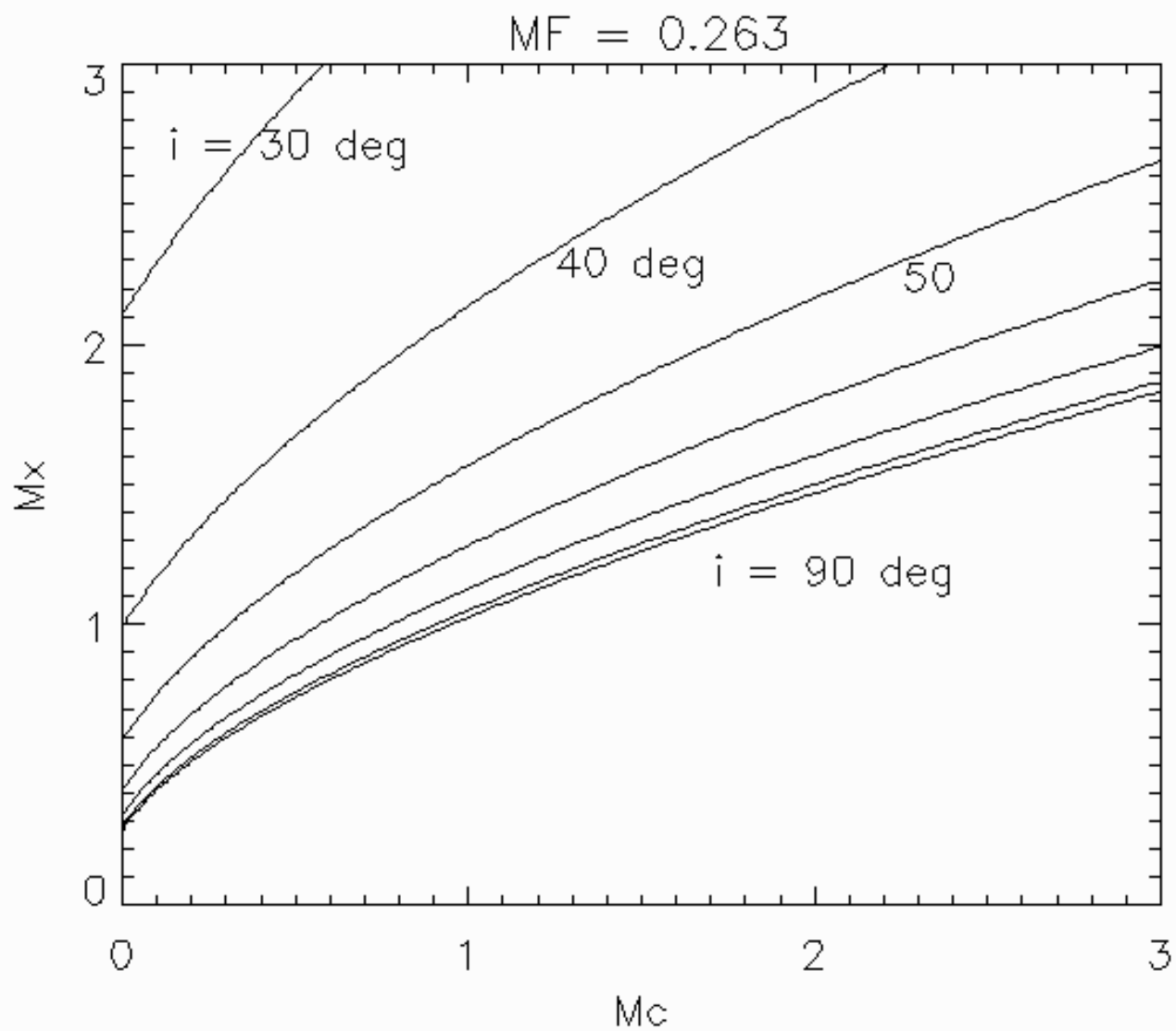


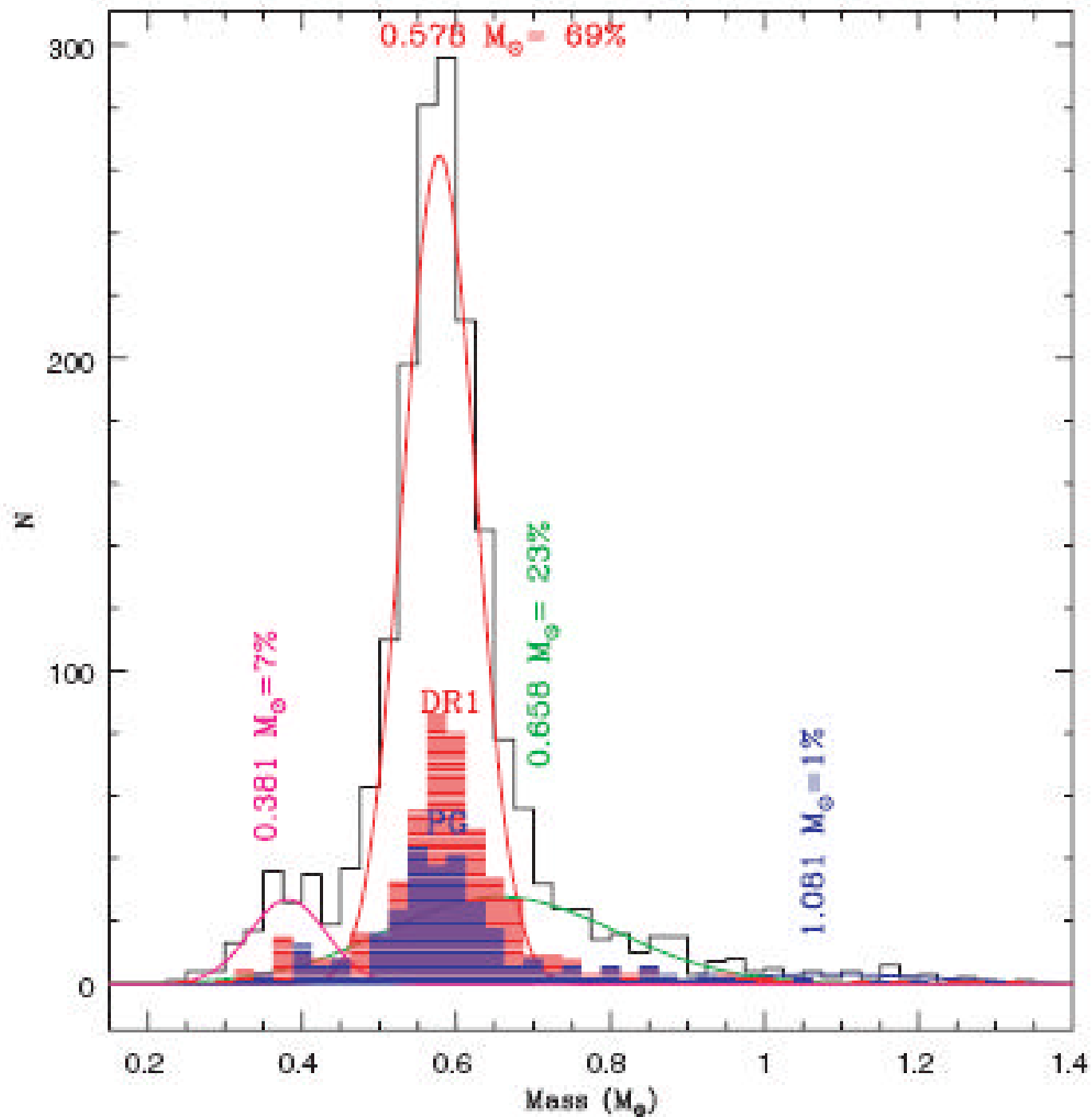
La danza sfrenata della Nana Cicciona

Sandro Mereghetti
Astrosiesta 29/1/2009

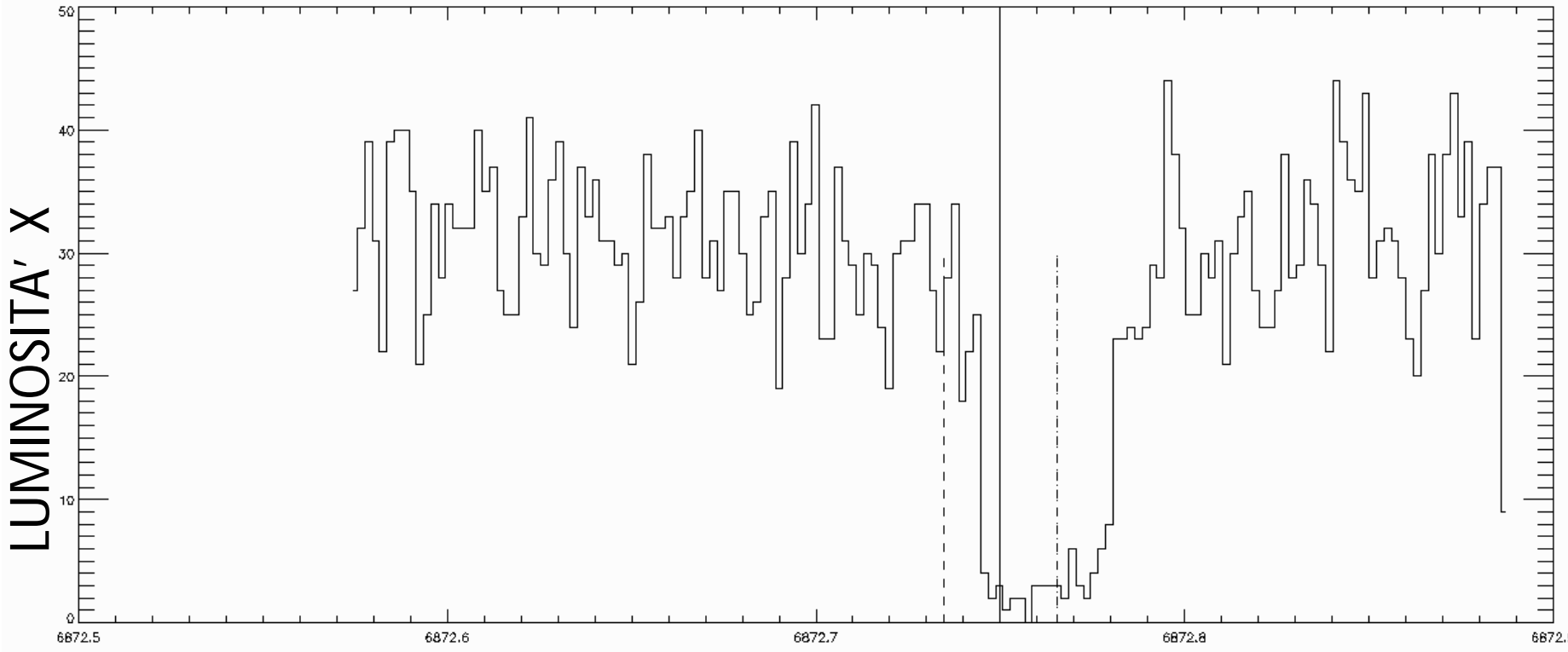
con Andrea Tiengo, Paolo Esposito, ed altri ...

FUNZIONE DI MASSA di HD 49798

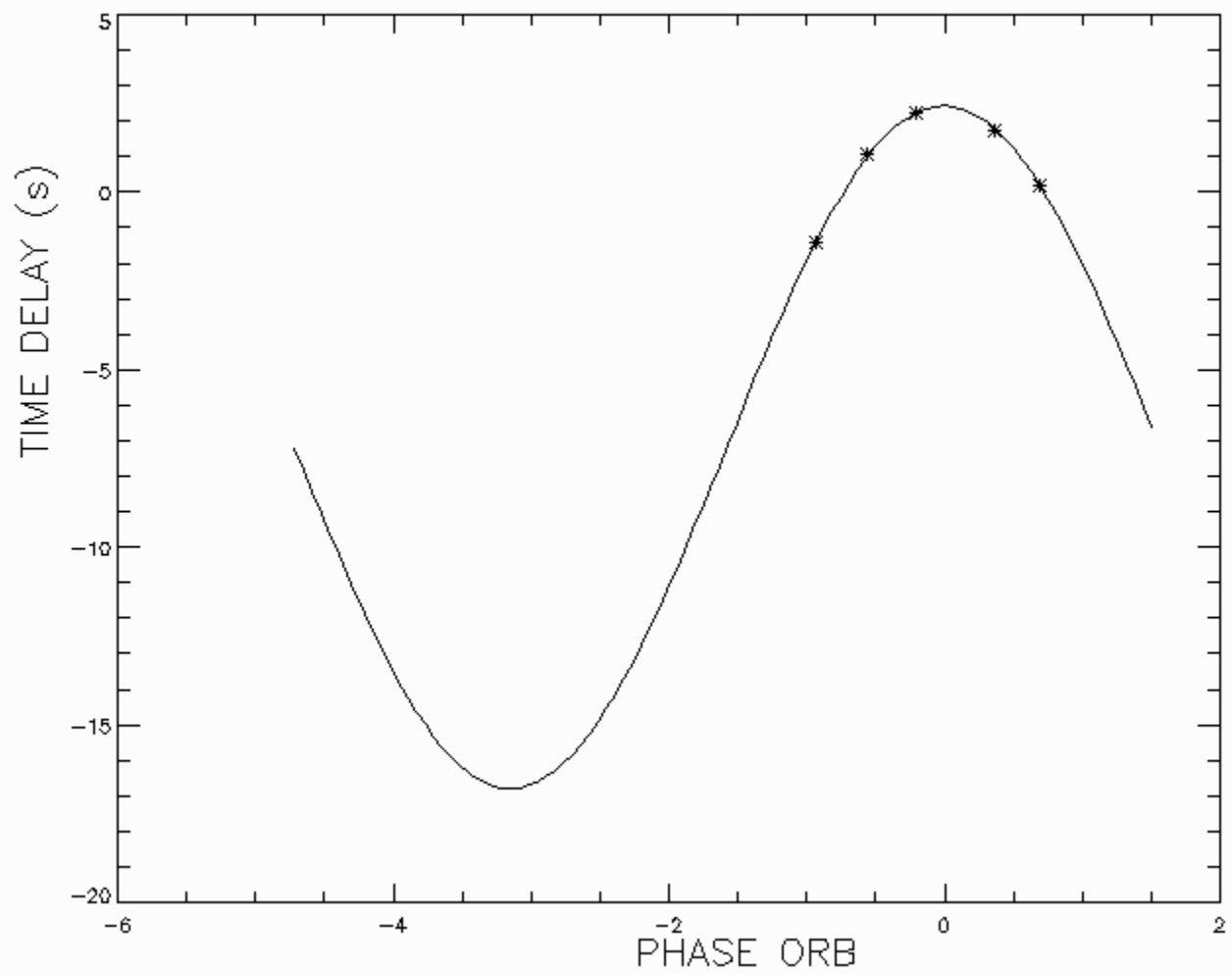




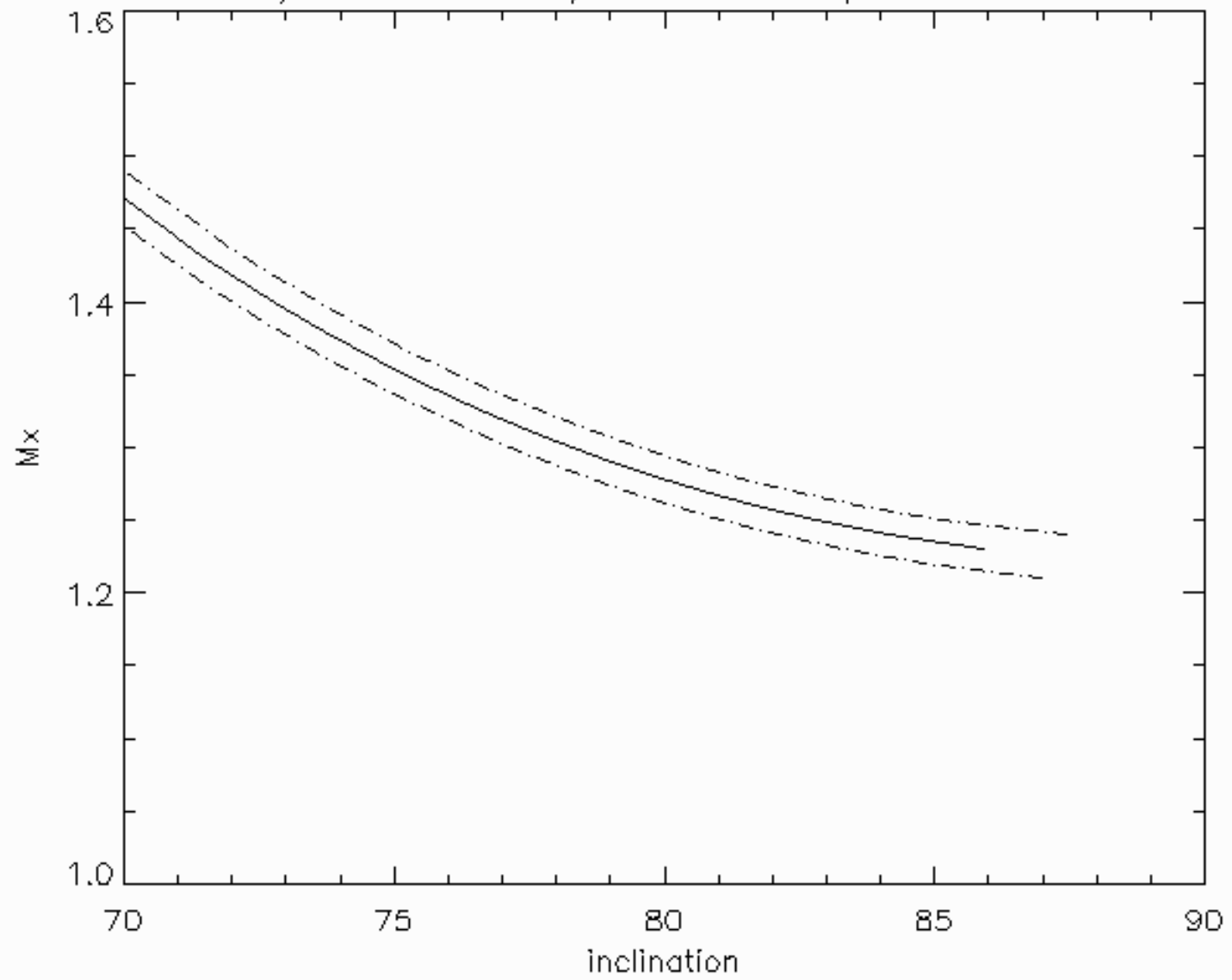
~ 8 ore



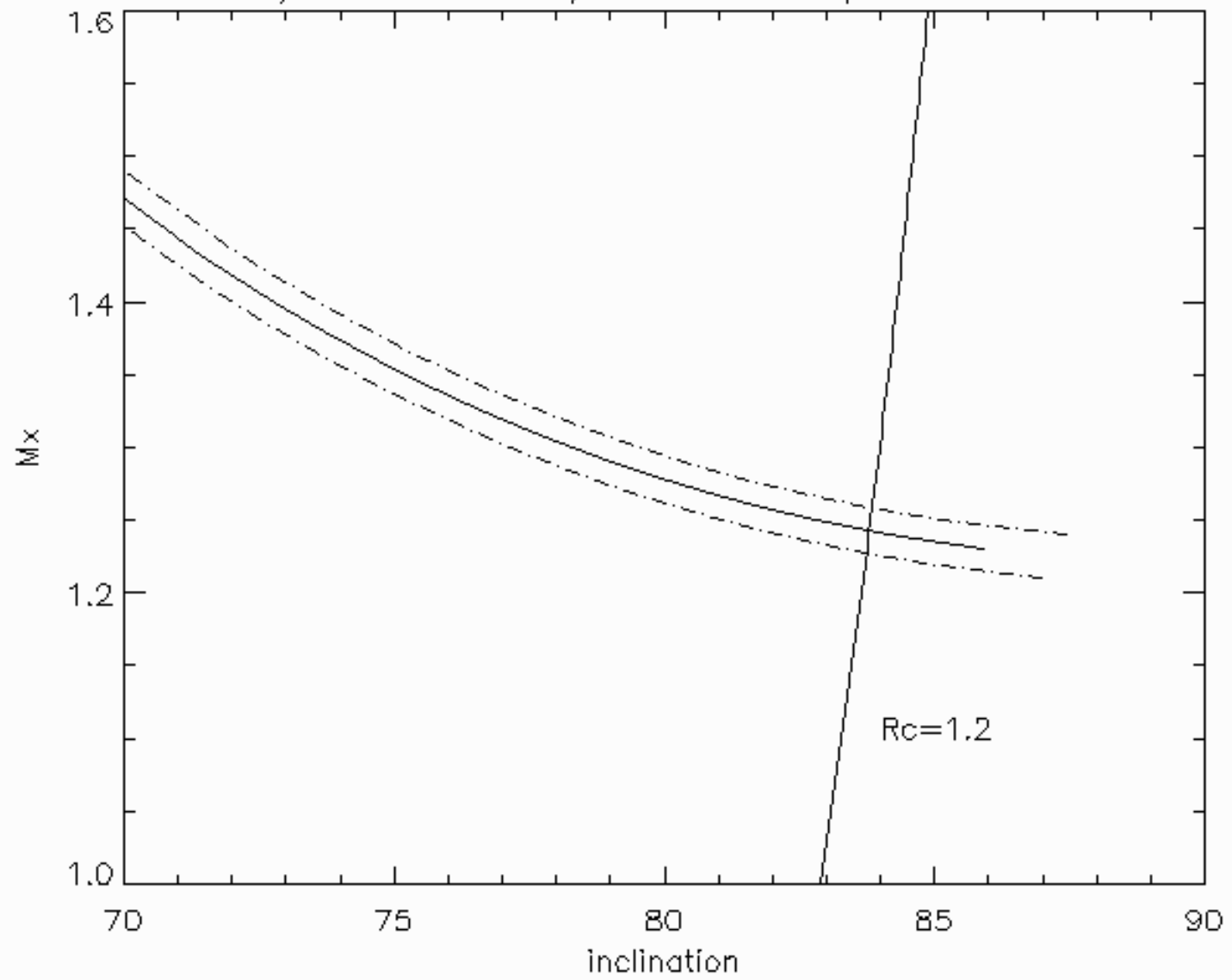
TEMPO [giorni]

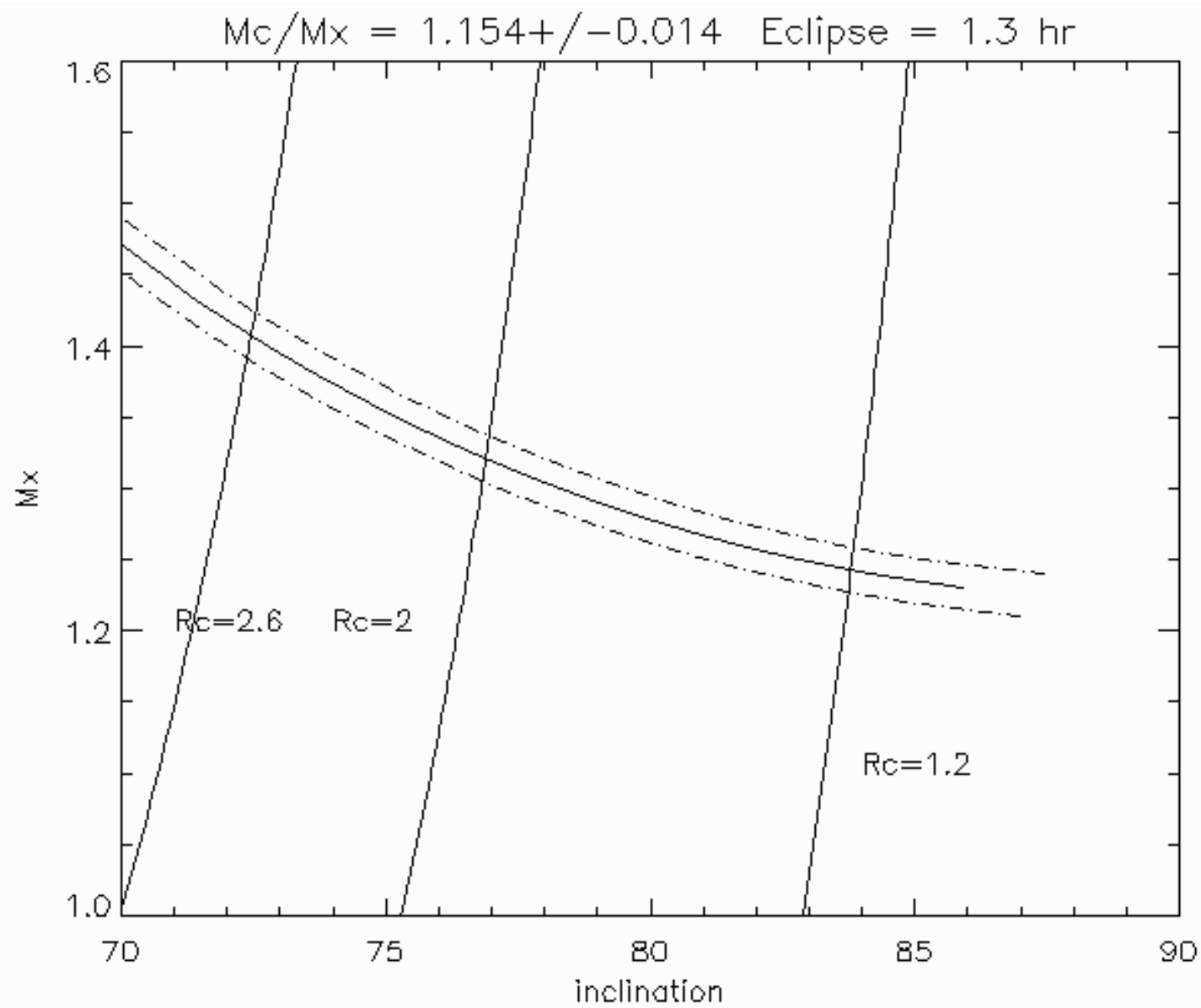


$M_c/M_x = 1.154 \pm 0.014$ Eclipse = 1.3 hr



$M_c/M_x = 1.154 \pm 0.014$ Eclipse = 1.3 hr





Conclusione

- Prima evidenza **solida** di una WD con massa > 1.2 Masse solari
[non dipende da assunzioni o modelli]
- La WD con la velocità di rotazione più alta $P = 13$ s
[vicino al limite di break-up]
- Rilevanza:
 - Eq. di stato WD
 - evoluzione binarie con common envelope
 - Initial/final mass relation
 - Supernove di tipo Ia
 - origine delle sub-dwarf OB
 - ..???

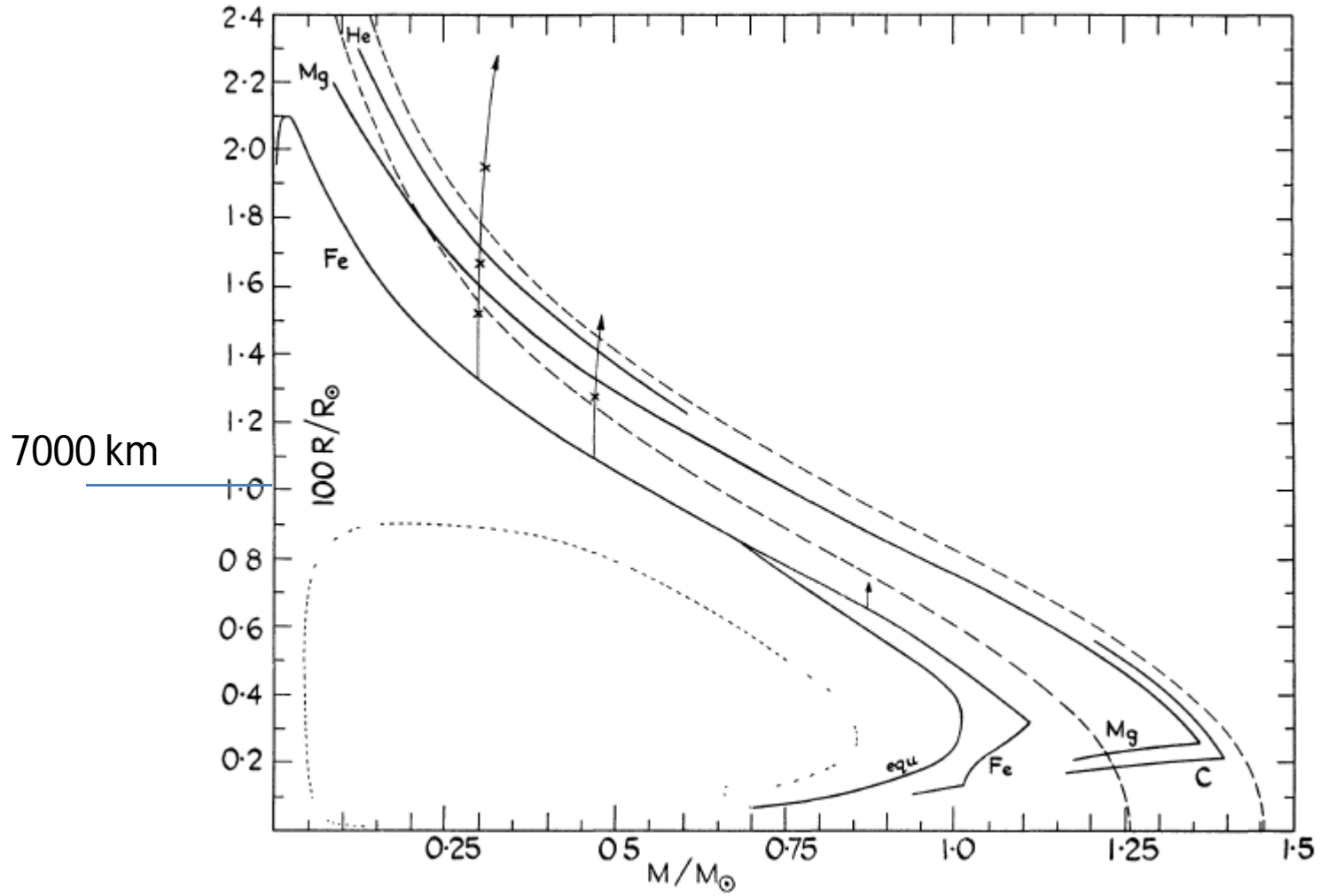
La danza sfrenata della Nana Cicciona

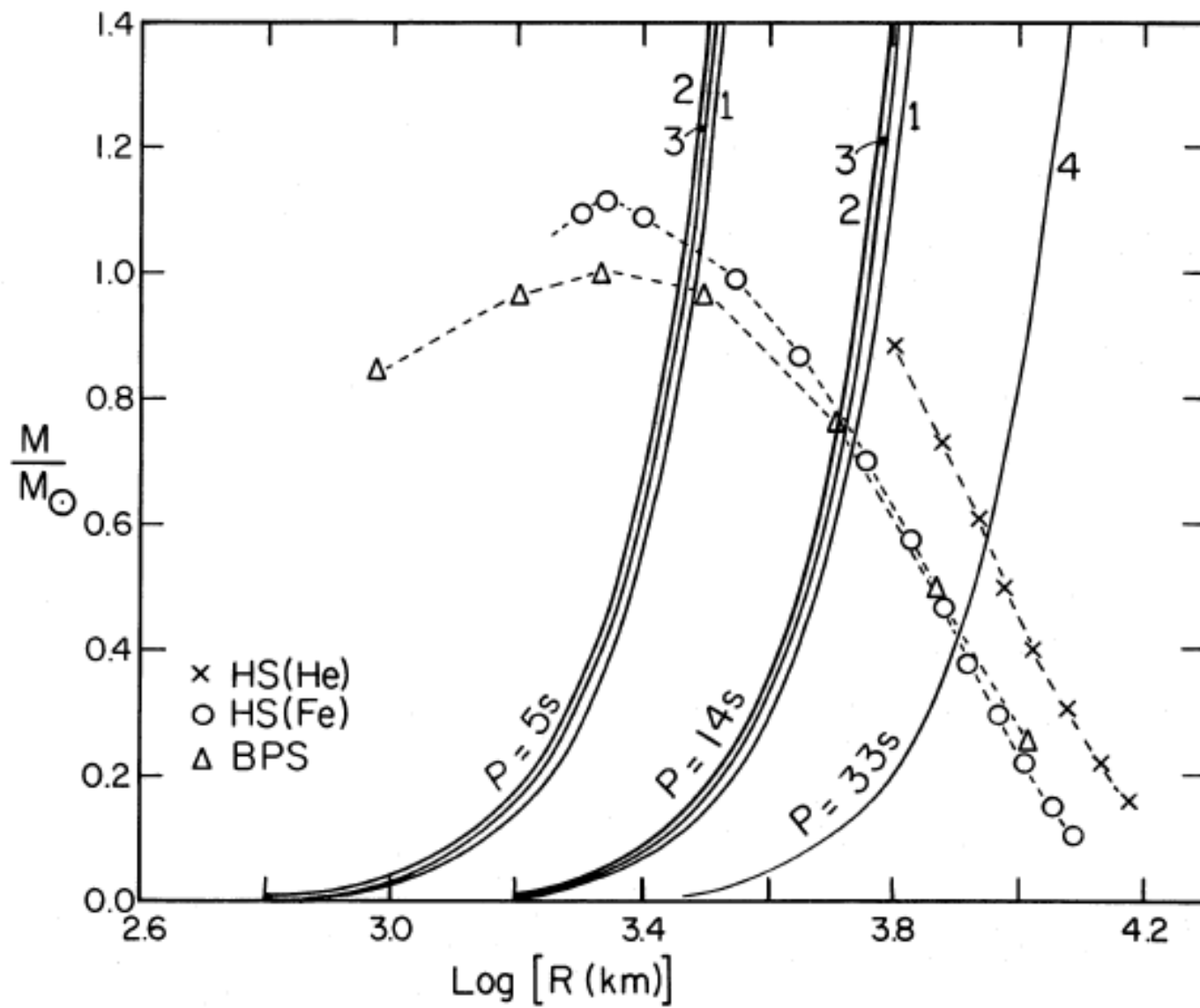
Che fine fara' ???



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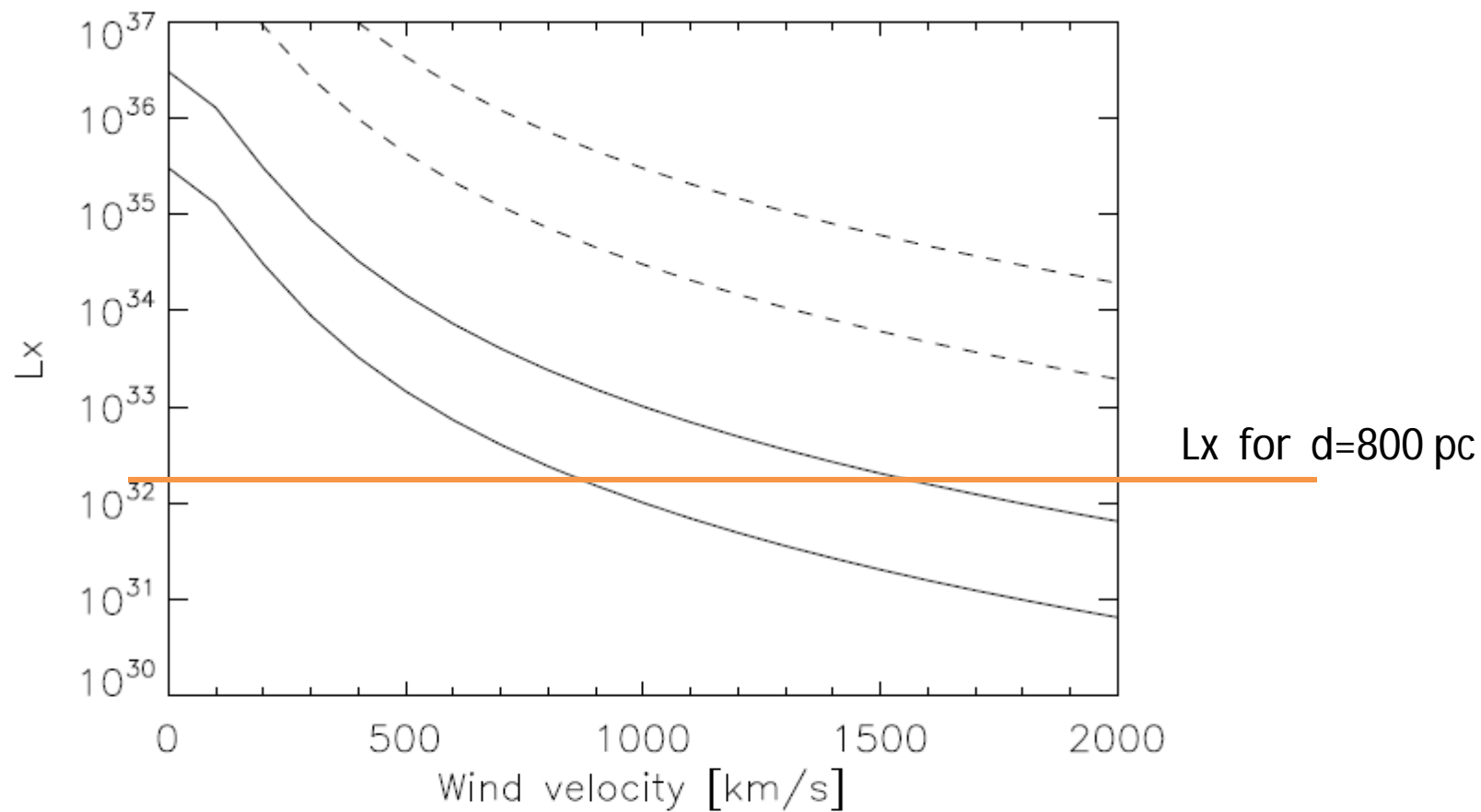


Fig. 4.— Accretion luminosity as a function of the wind velocity for a NS (dashed) and a WD (solid) and two different values of mass loss from HD 49798 ($3 \times 10^{-8} M_{\odot} \text{ yr}^{-1}$ and $3 \times 10^{-9} M_{\odot} \text{ yr}^{-1}$).