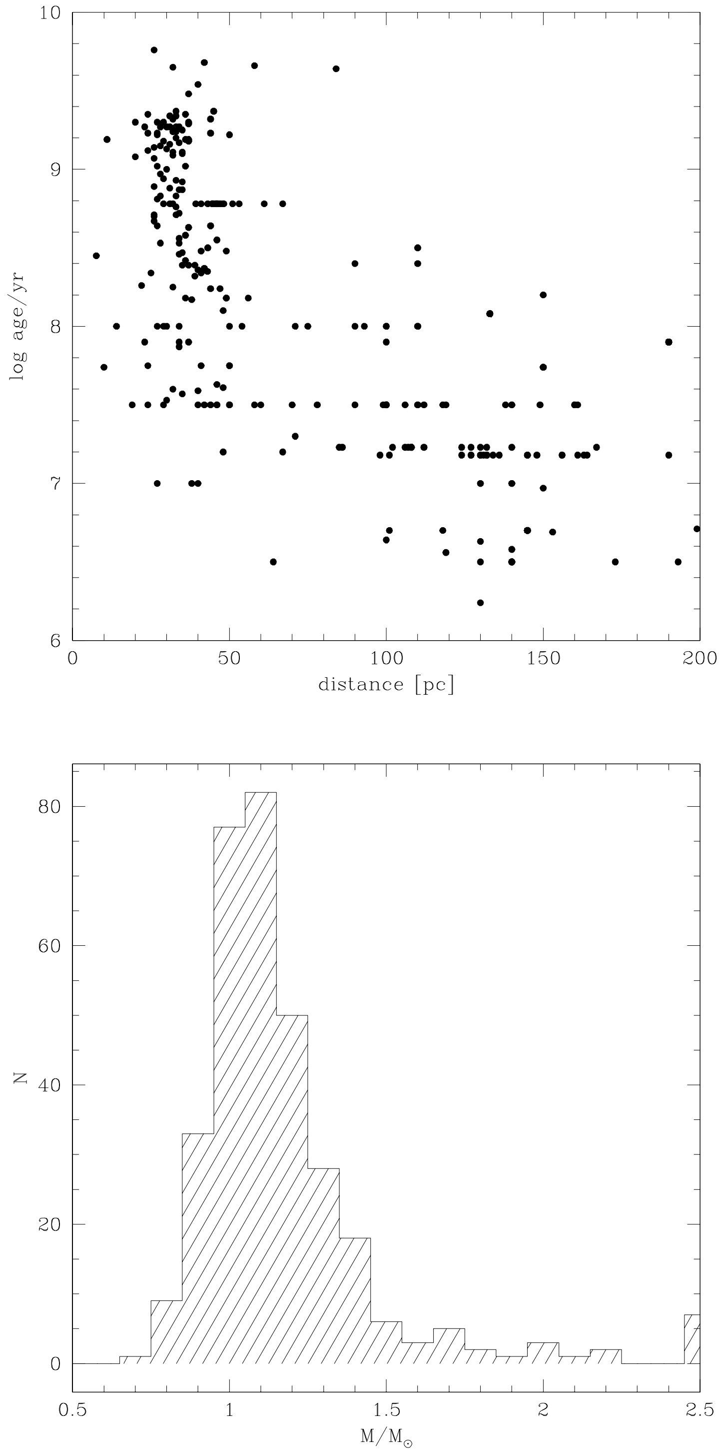


Fig. 1.— Characteristics of the FEPS sample. Upper panel: Age derived herein vs distance. Obviously the ordinate is still under discussion. Lower panel: Mass distribution of FEPS objects derived from the HR diagram and Swenson et al pre-ms/ms evolutionary tracks.

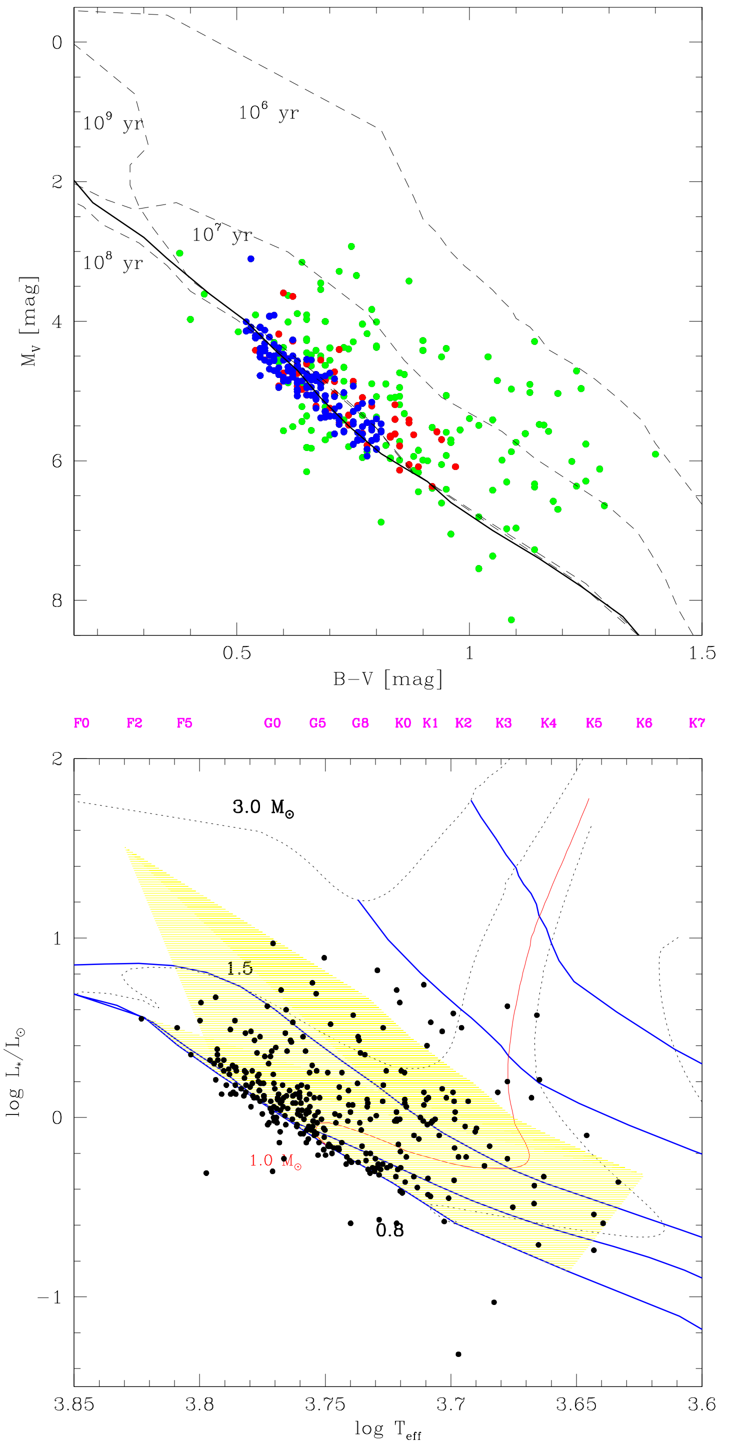
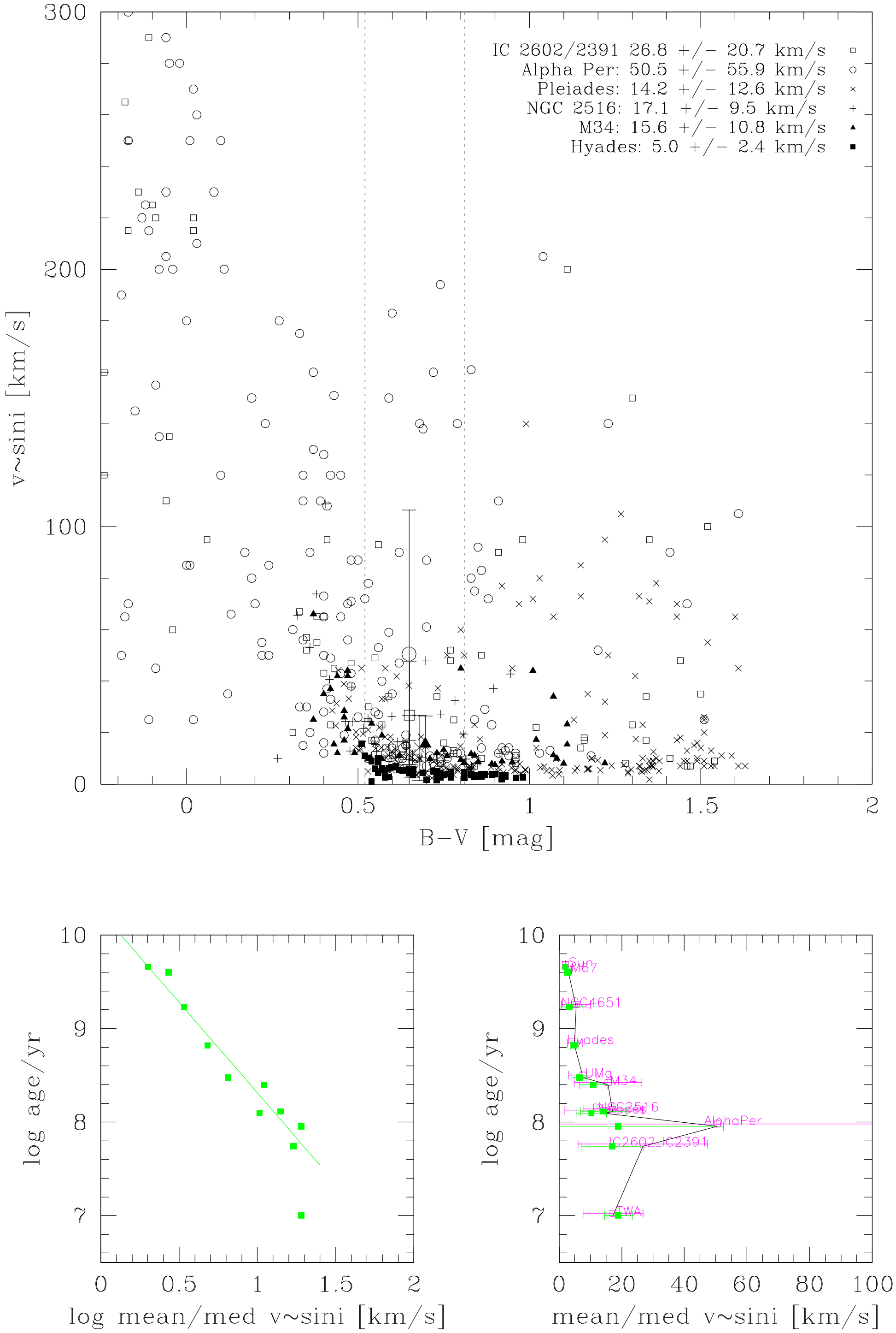


Fig. 2.— Color-magnitude and Hertzsprung-Russell diagrams for FEPS objects. Upper panel: M_V vs B-V. Red represents members of the open clusters IC 2602, Alpha Per, Pleiades, Hyades; blue represents solar neighborhood field stars with Hipparcos parallaxes; green represents more distant field stars selected using x-ray emission as a signature of potential youth. Lower panel: log L/Lsun vs log Teff/K.


IC 2602/2391 26.8 +/− 20.7 km/s
Alpha Per: 50.5 +/− 55.9 km/s
Pleiades: 14.2 +/− 12.6 km/s
NGC 2516: 17.1 +/− 9.5 km/s
M34: 15.6 +/− 10.8 km/s
Hyades: 5.0 +/− 2.4 km/s
v~sini [km/s]
B−V [mag]
log age/yr
log mean/med v~sini [km/s]
mean/med v~sini [km/s]
M67
NGC4651
Hyades
UMa
M34
NGC2516
AlphaPer
IC2602
IC2391
TWA

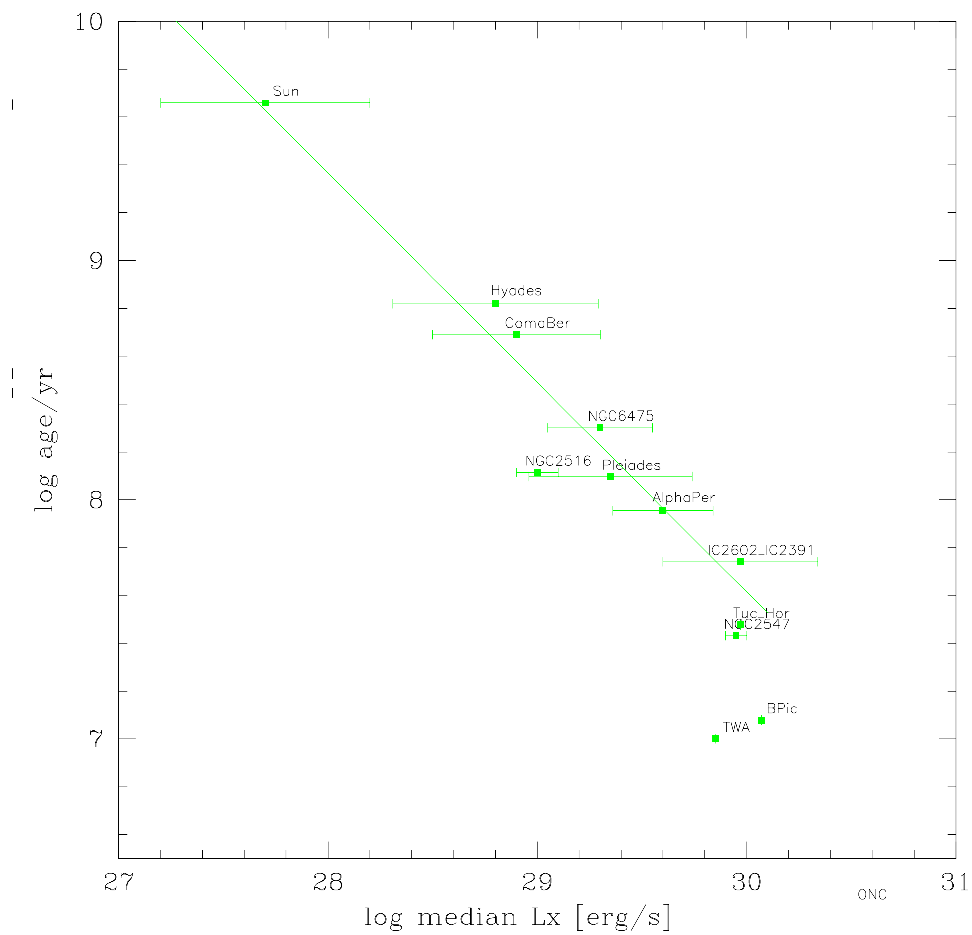


Fig. 4.— Cluster calibration of Lx.

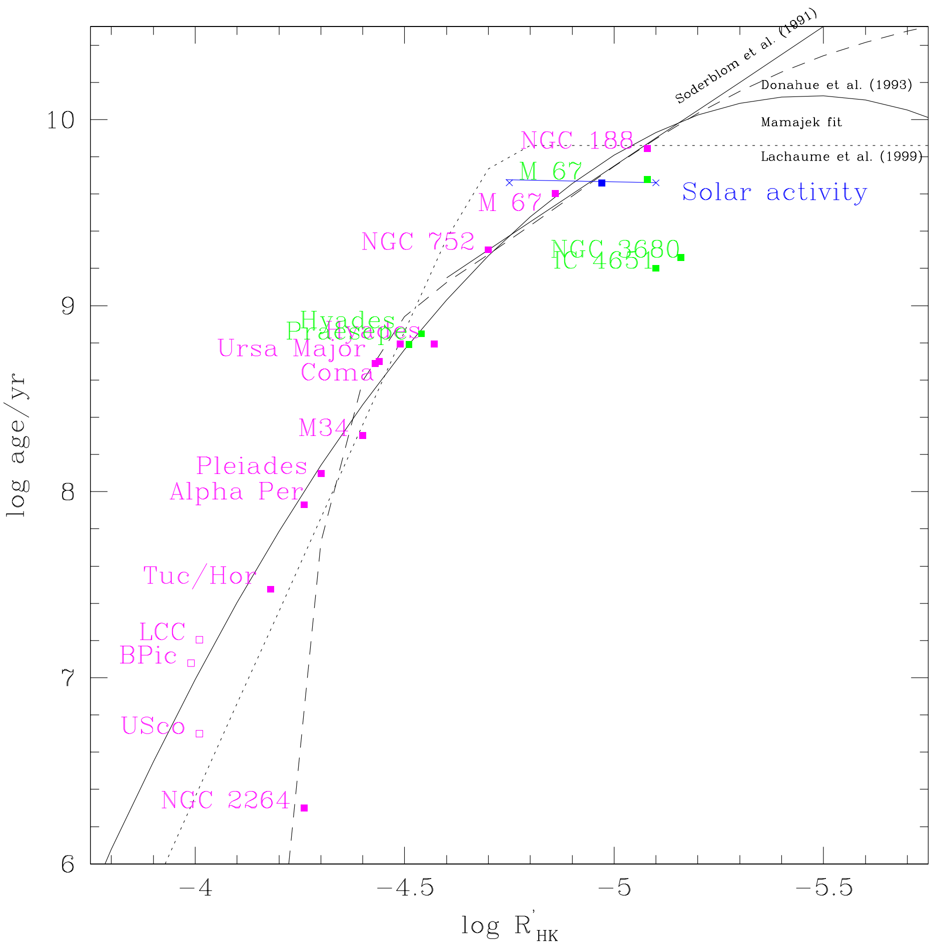


Fig. 5.— Cluster calibration of CaII H&K emission index.

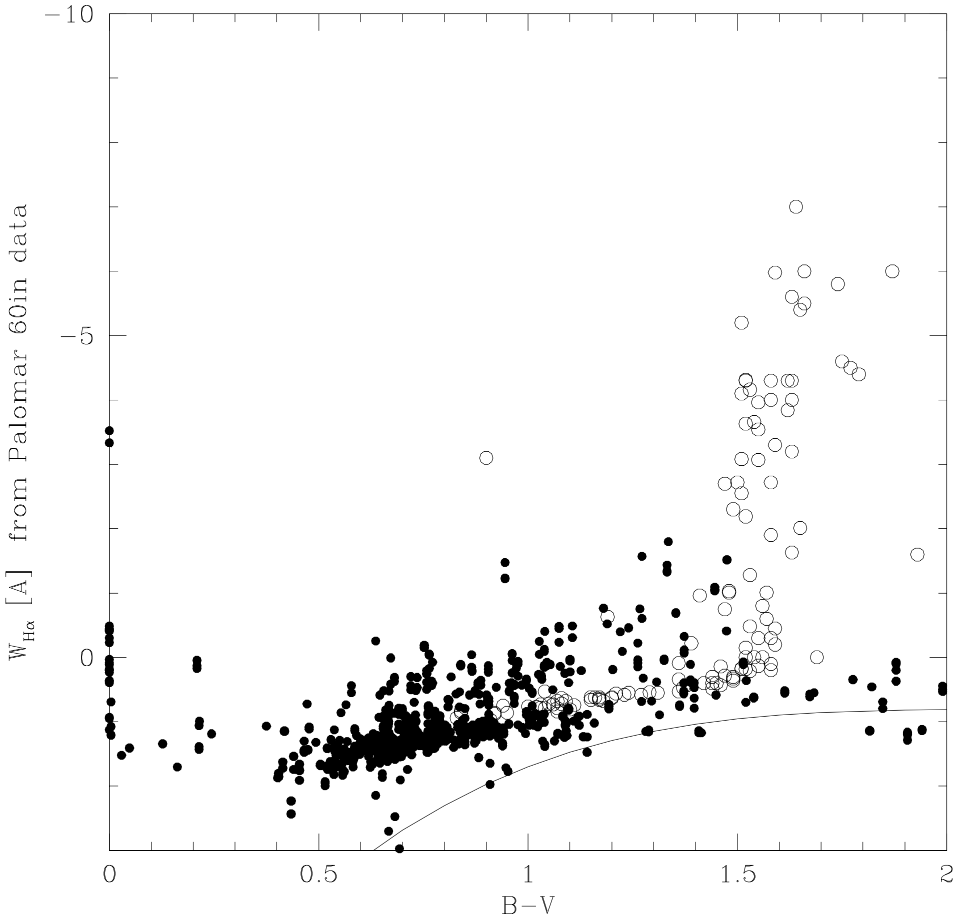


Fig. 6.— Hα equivalent width vs B-V for FEPS objects (filled symbols – currently all P60" observations including standards) compared to the Stauffer et al. (1991) Hyades data (open symbols). Solid lines represent the analytic fit of by Mamajek et al (2002) for field dwarfs and subgiants while dotted lines are the rms in the fit. In the bottom panel only the first-look gas sub-sample from FEPS is shown.

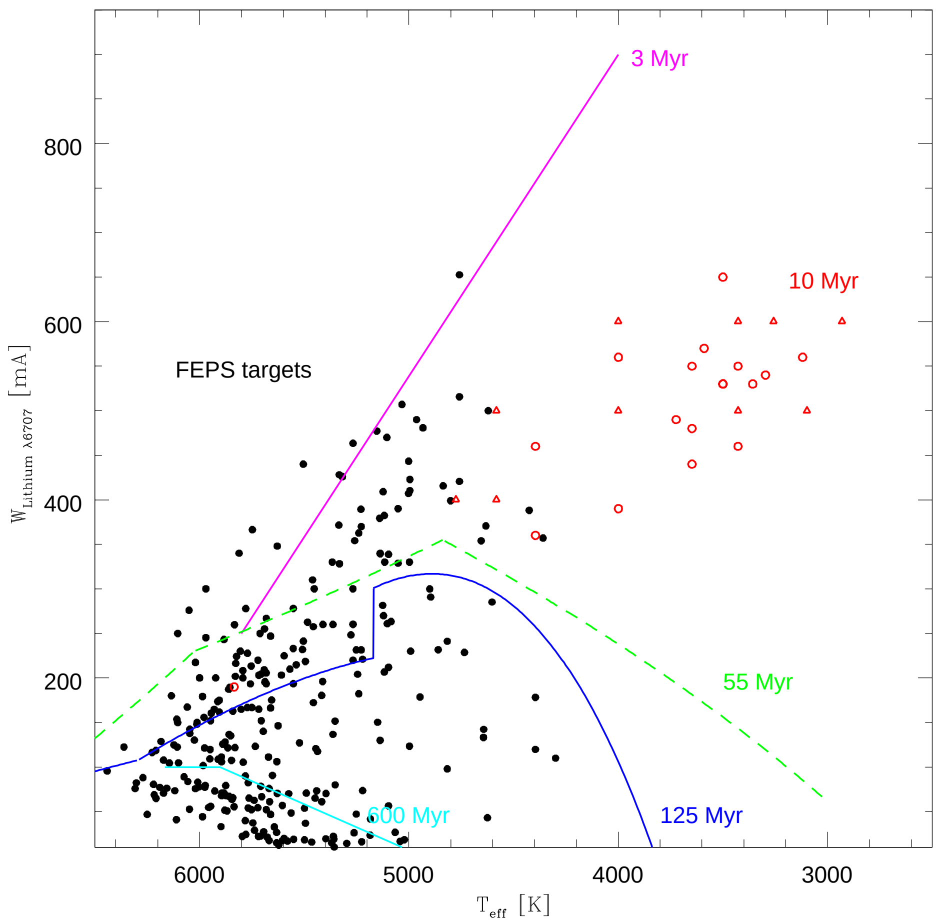


Fig. 7.— LiI 6708 of FEPS stars. "Traditional" lithium minima for clusters shown; Mamajek has different plot showing cluster median and 1σ values.

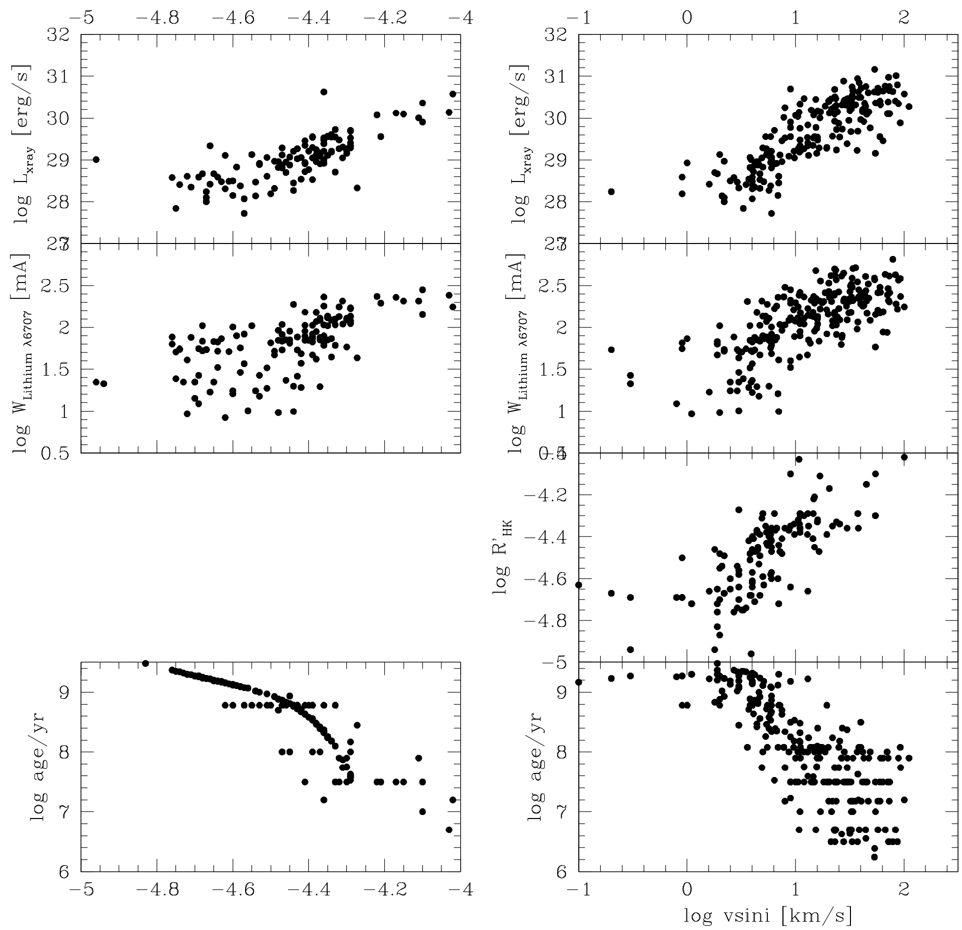


Fig. 8.— Comparison of various empirical age indicators. Note that the lower left panel reflects the Donahue calibration as applied, except for cluster stars which are assigned a single age and some very young stars where the calibration does not apply. Might want to make a separate figure for only FEPS cluster stars?

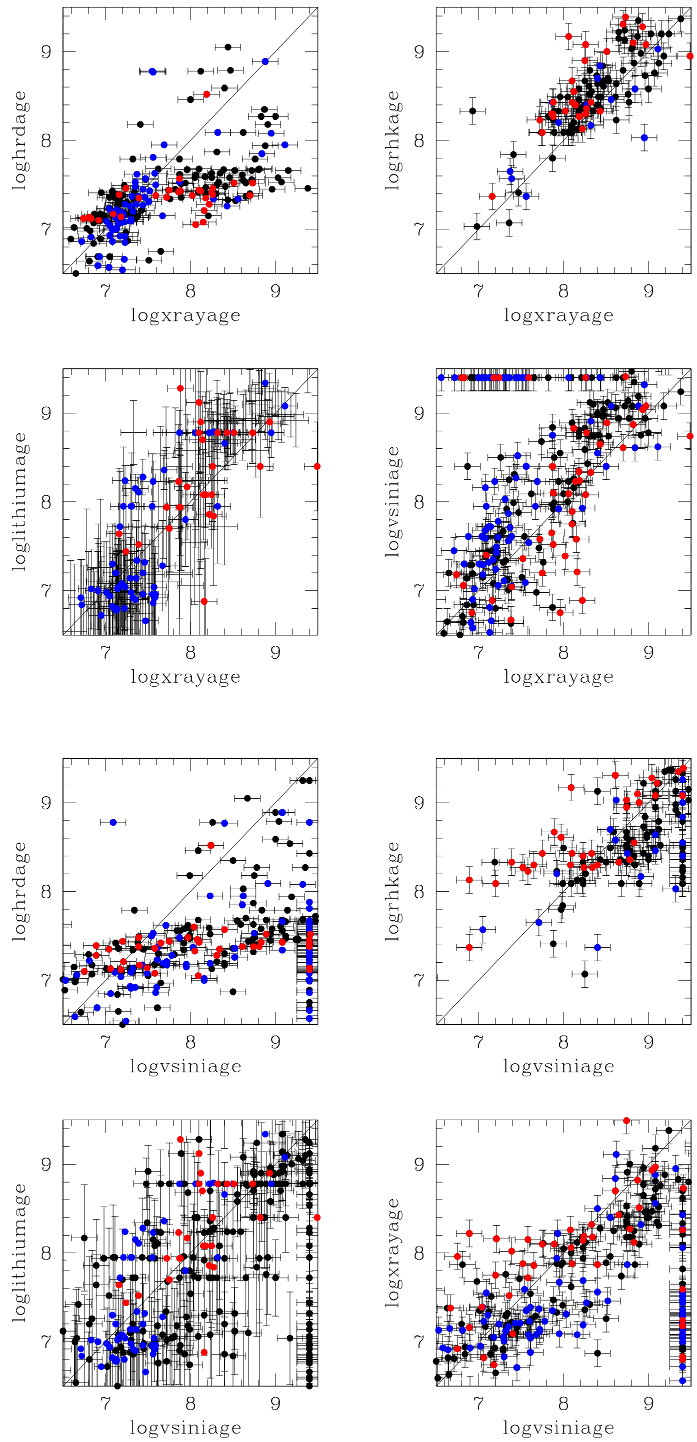


Fig. 9.— Comparison of ages derived from different techniques. Top four panels show x-ray luminosity as the ordinate while bottom four panels show vsini ages as the ordinate.