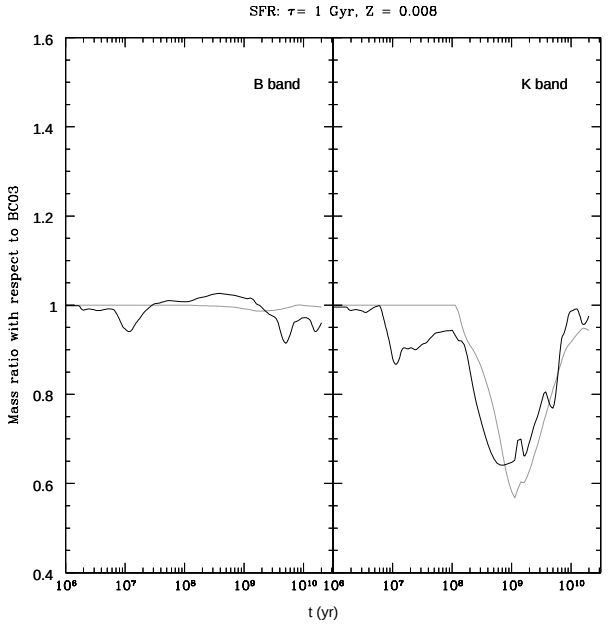

Fig. 9. Same as Figure 8 but for the $Z = 0.008$ BC03, CB07, and CB11 models.

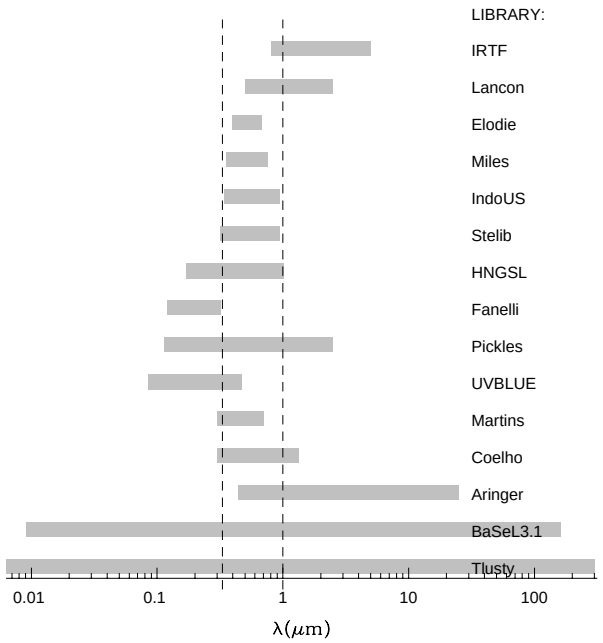

Fig. 10. Wavelength range covered by most spectral libraries commonly used in population synthesis models. The Tlusty models are the models computed by Lanz & Hubeny (2003, 2007).

- Origin and role of blue stragglers in stellar evolution and their relevance in the integrated properties of star clusters and galaxies.
- The role of binaries in the evolution of stellar populations of various ages and metallicities, and in different environments (stellar density).
- Do light/heavy element ratios vary from star to star or galaxy to galaxy in a way that we can understand? Are models with flexible chemistry which vary individual element abundance a la Worthey (Dotter et al. 2007; Lee et al. 2009) really necessary?
- Is the IMF universal?

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