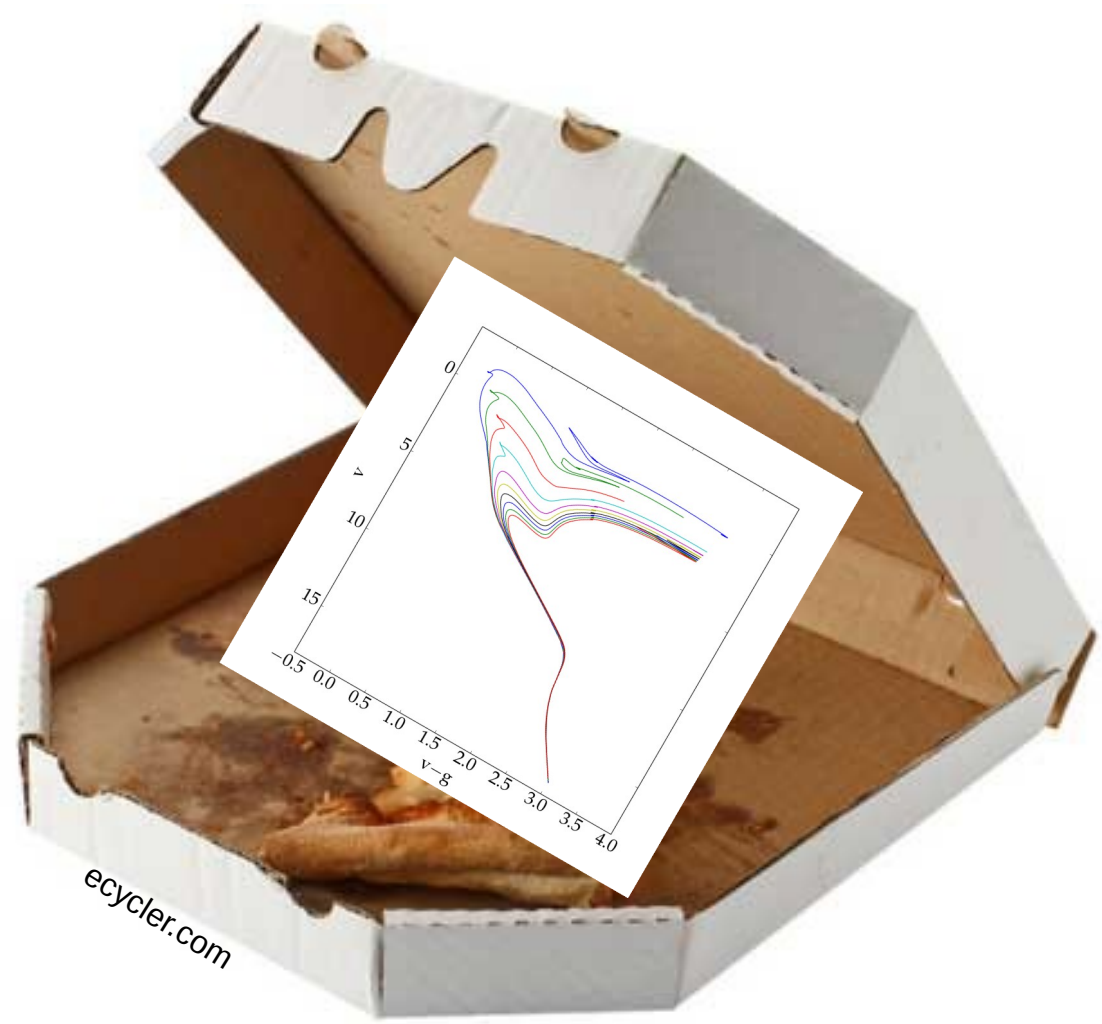


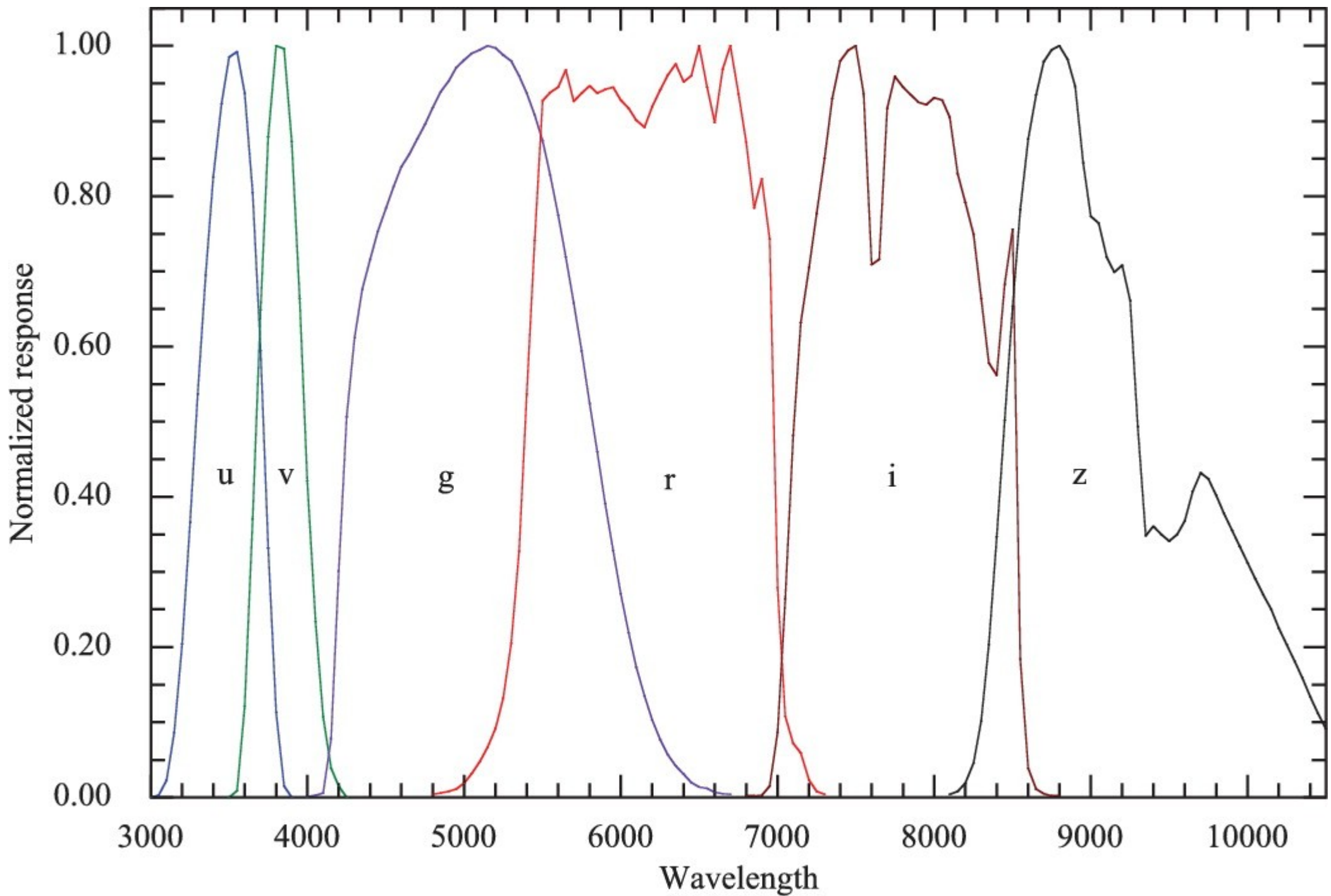
Isochrones for SkyMapper



Aaron Dotter
RSAA - 09/04/2014

Dartmouth Stellar Evolution Database

- Stellar evolution tracks for 0.1 to 5 M_{\odot}
 - Pre-main sequence through He-burning
- Isochrones for ages 250 Myr to 15 Gyr
 - Main sequence, red giant branch, He-burning*
 - Pre-main sequence available upon request!
- $-2.5 \leq [\text{Fe}/\text{H}] \leq 0$ with $-0.2 \leq [\alpha/\text{Fe}] \leq +0.8$
- $0 < [\text{Fe}/\text{H}] \leq +0.5$ with $-0.2 \leq [\alpha/\text{Fe}] \leq +0.2$



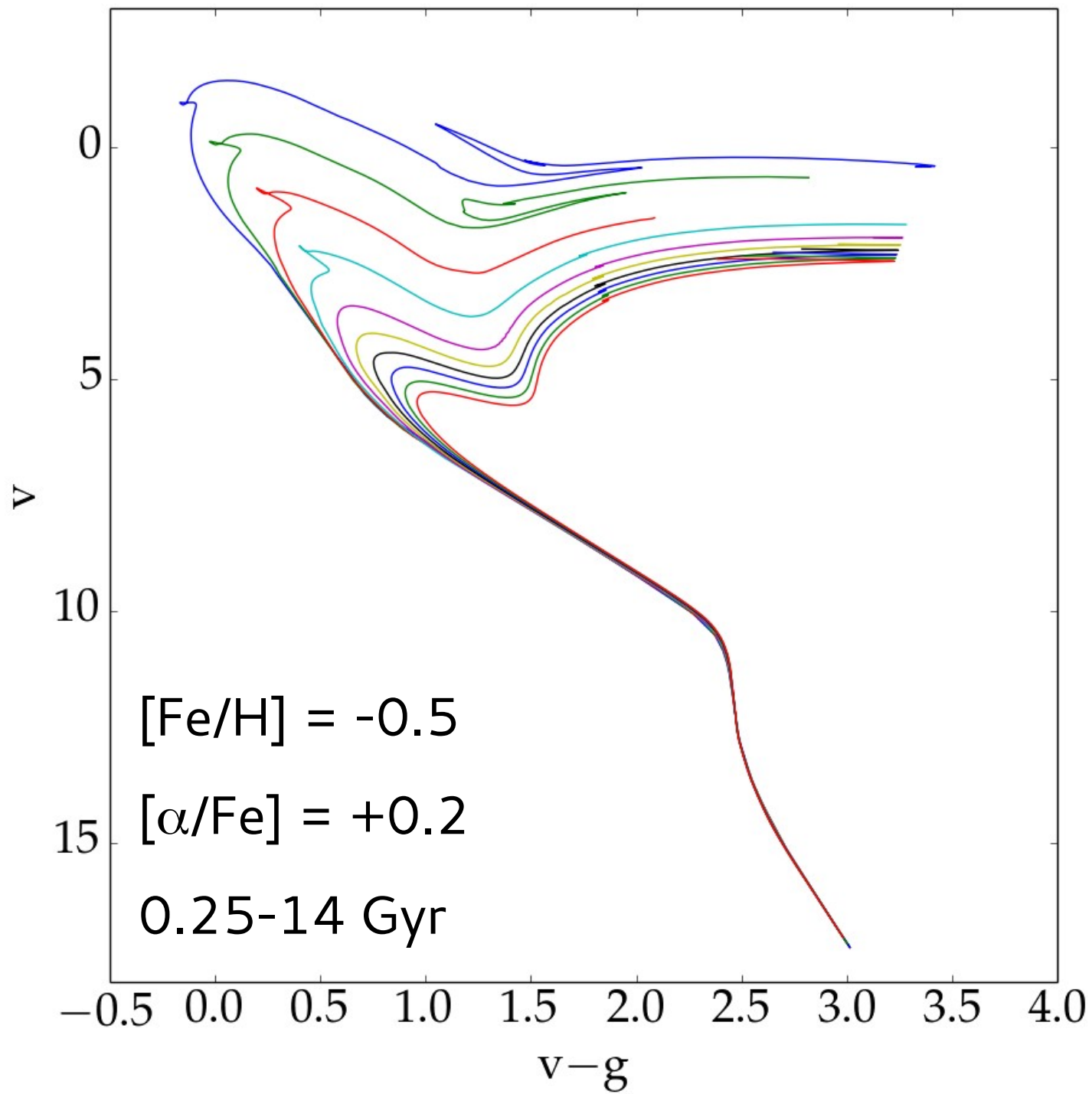
Bessell, Bloxham, Schmidt, Keller, Tisserand, & Francis (2011, PASP, 123, 905)

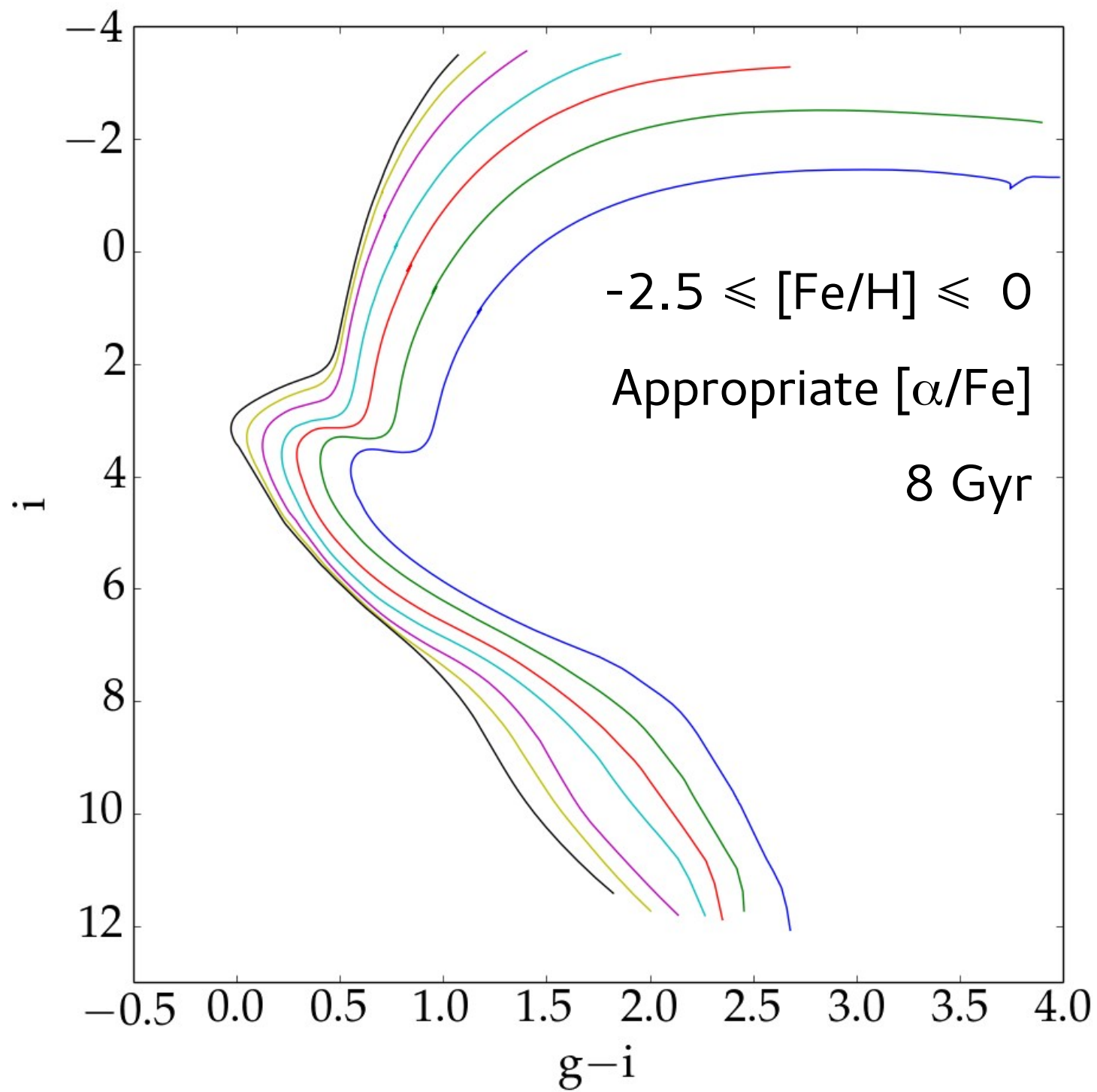
SkyMapper Isochrones

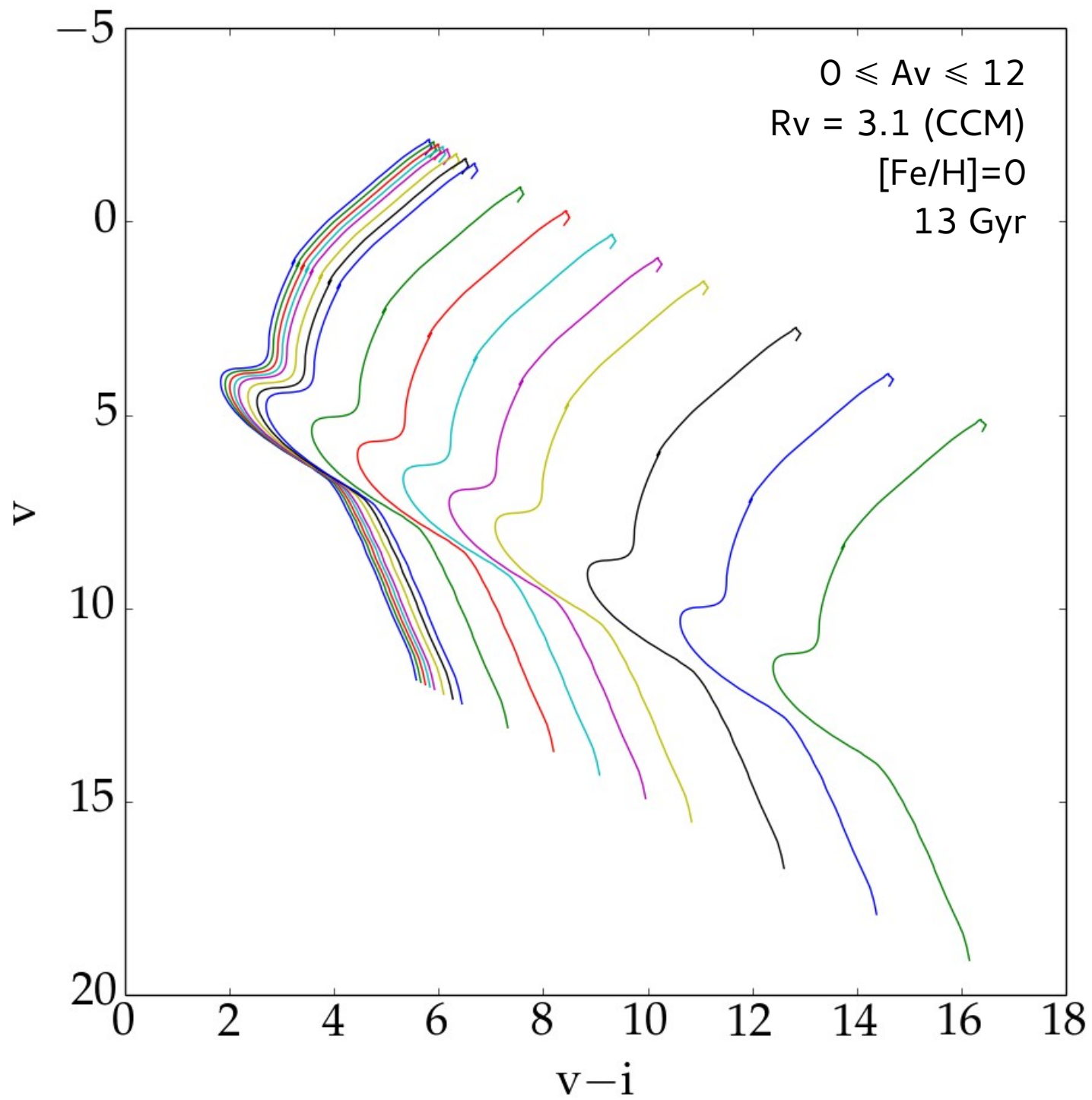
- Filters transmissions from Bessell et al. (2011)
- AB magnitudes
- All models previously mentioned available

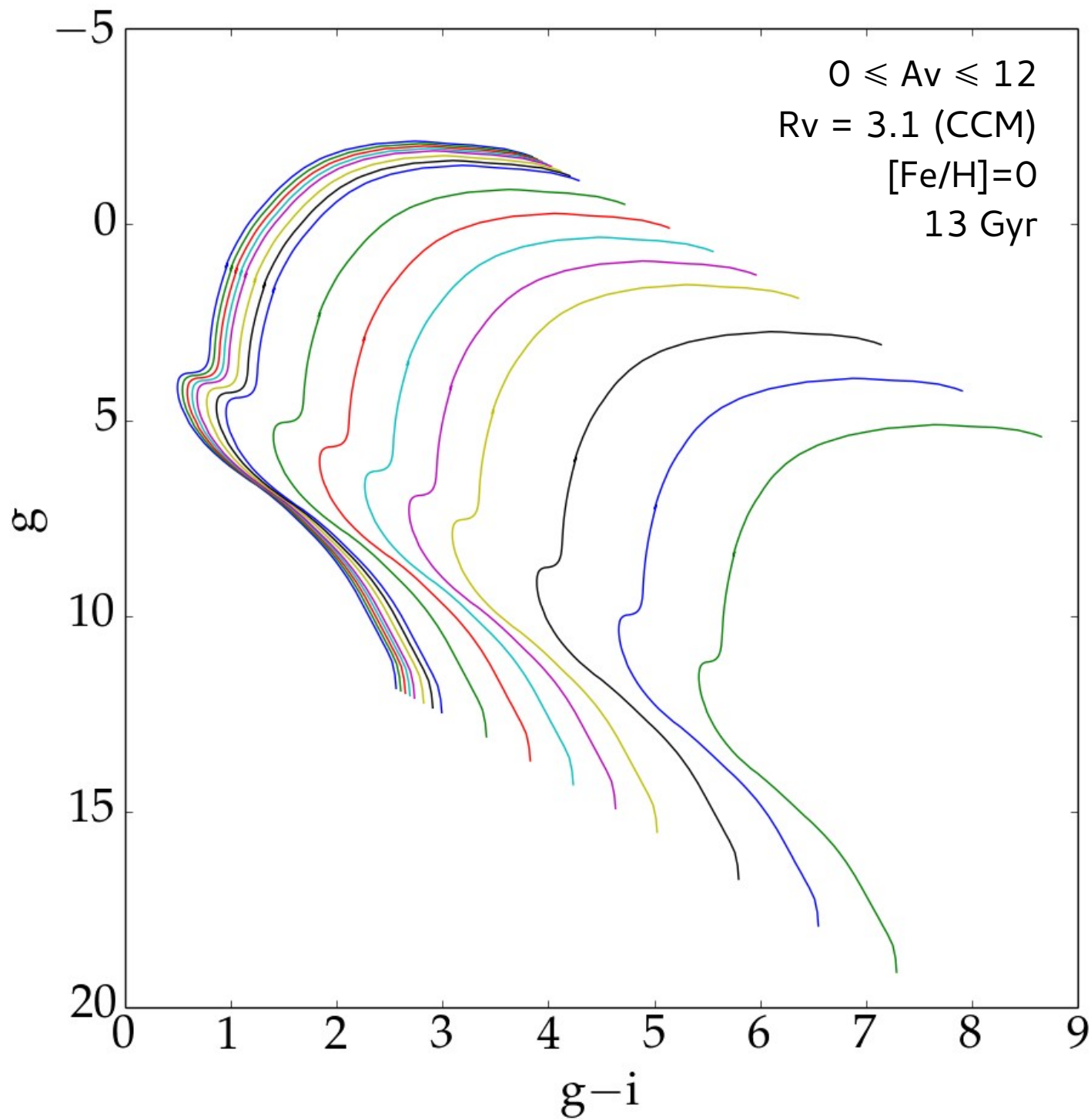
stellar.dartmouth.edu/models

- Work in progress: variable extinction; $A_v, R_v \neq 0$









Conclusion

SkyMapper models are available, please use them!

But they are untested.

Your feedback would be much appreciated.