Gyrochronology of Wide Binaries in the Kepler K2 Campaign 5 Field

Terry D. Oswalt  
*Embry-Riddle Aeronautical University*, oswaltt1@erau.edu

Derek Buzasi  
*Florida Gulf Coast University*, dbuzasi@fgcu.edu

Tomomi Otani  
*Embry-Riddle Aeronautical University*, otanit@erau.edu

Follow this and additional works at: [https://commons.erau.edu/publication](https://commons.erau.edu/publication)

Part of the [Stars, Interstellar Medium and the Galaxy Commons](https://commons.erau.edu/publication)

**Scholarly Commons Citation**


This Poster is brought to you for free and open access by Scholarly Commons. It has been accepted for inclusion in Publications by an authorized administrator of Scholarly Commons. For more information, please contact [commons@erau.edu](mailto:commons@erau.edu).
We are determining rotation periods for an ensemble of over 100 wide non-interacting binary stars in the K2 Campaign 5 field that contain two main sequence dwarfs, as well as a smaller sample containing at least one white dwarf component. Observations of such coeval pairs provide the basis for our new investigation of rotation-based age determinations. Such “gyrochronology” ages can achieve a precision that exceeds most other current methods of stellar age determination. Here we present a status report on our analysis of the light curves extracted from the K2 Campaign 5 field.