

The Effect of Stellar Evolution on Sunburns

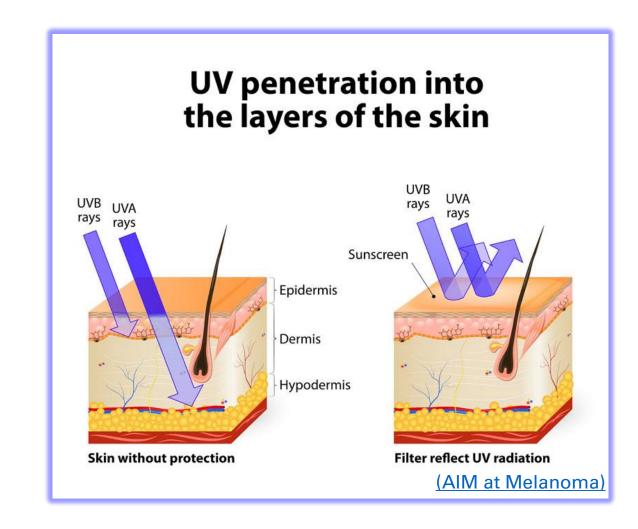
Liam Becker

UVA:

- 315 400 nm
- Can get <u>through atmosphere</u> much <u>easier</u>
- <u>Deeper</u> skin damage

UVB:

- 280 315 nm
- Mostly <u>stopped by atmosphere</u>
- Shallow skin damage



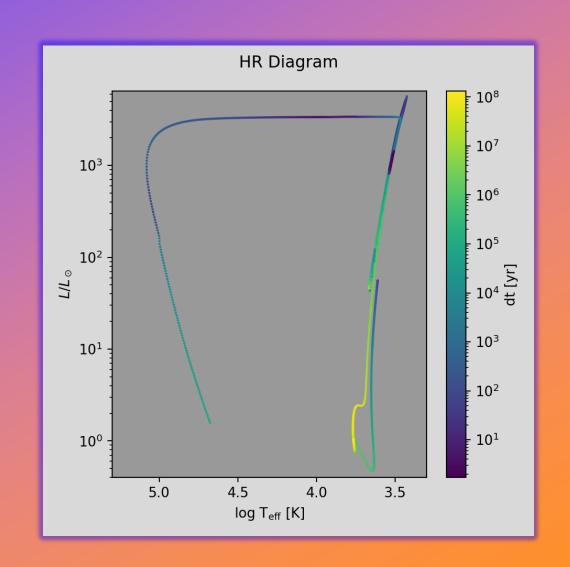
The Model

MIST

- MESA Isochrones and Stellar Tracks (Dotter, A.)
- Modules for Experiments in Stellar Astrophysics (MESA)
- Creates <u>stellar evolution tracks</u>

Simulated observation

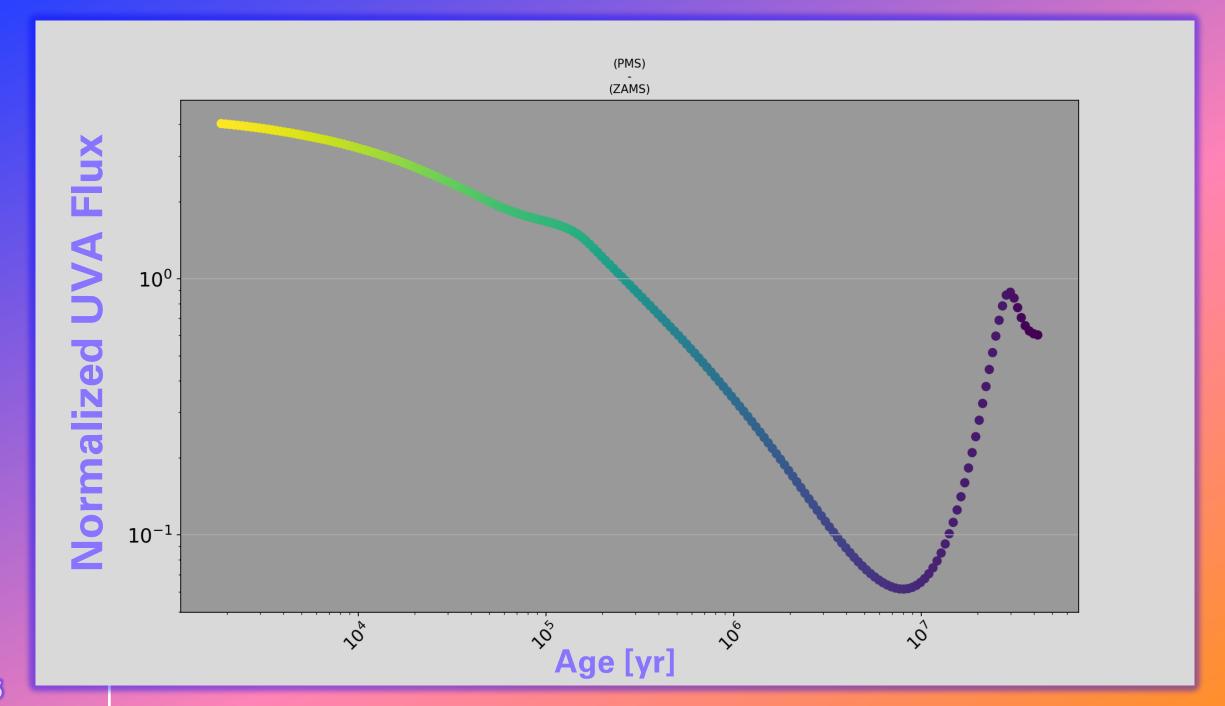
- Strömgren u-band
 - Centered at <u>350 nm</u>
 - Half-width of <u>30 nm</u>

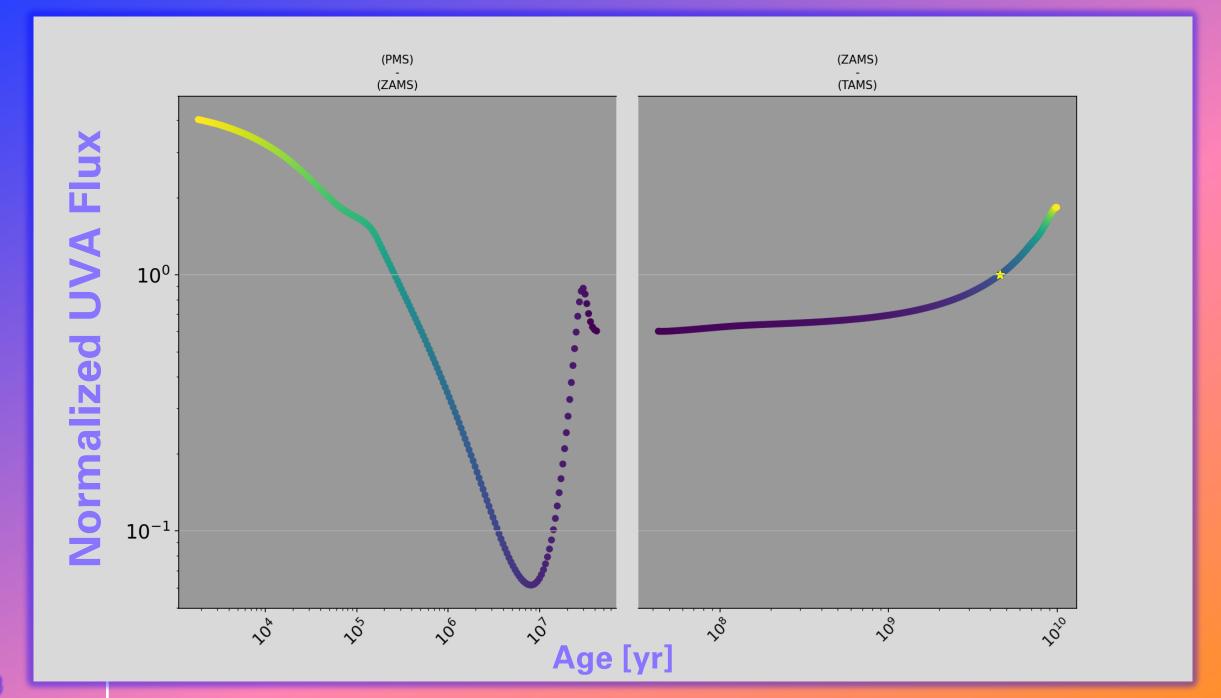


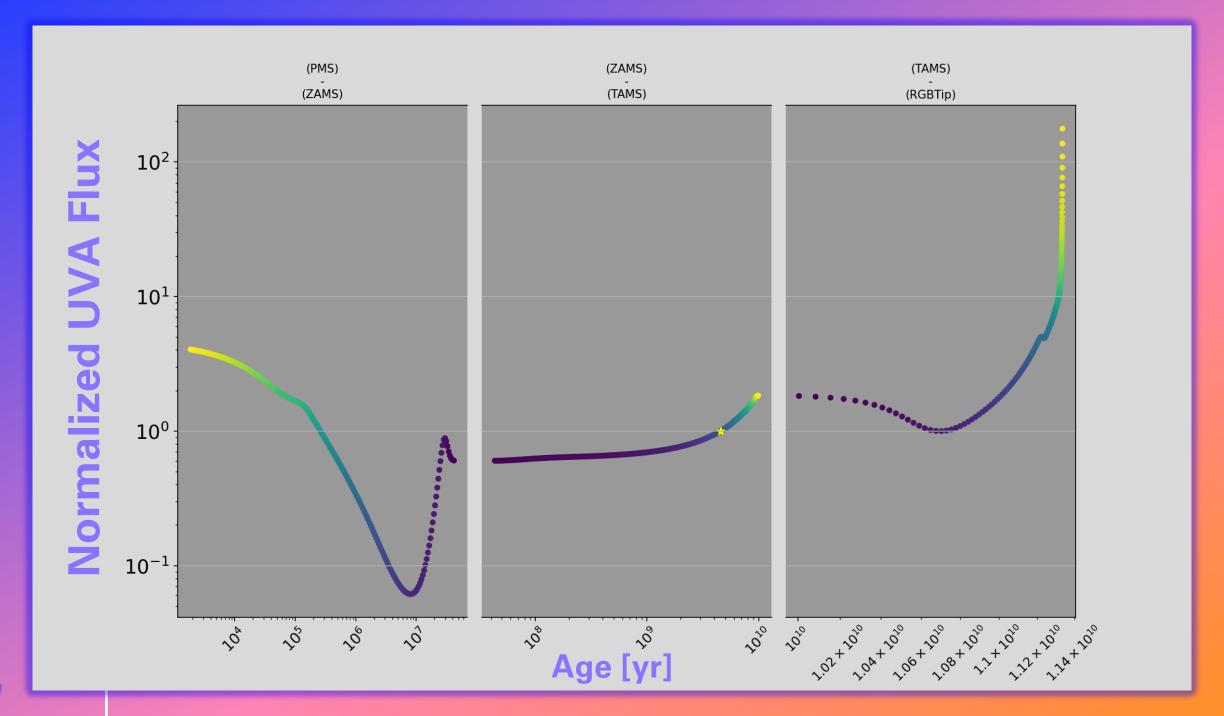


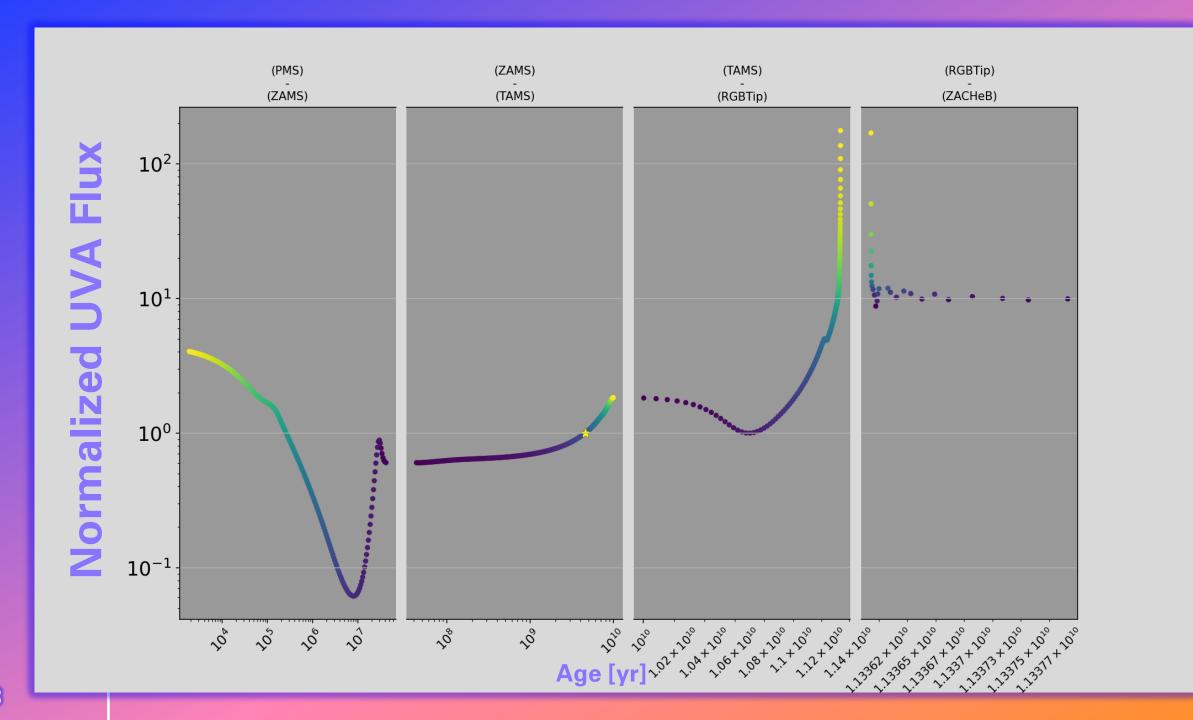
The Effect of Stellar Evolution on the UVA Flux Received by the Surface of the Earth

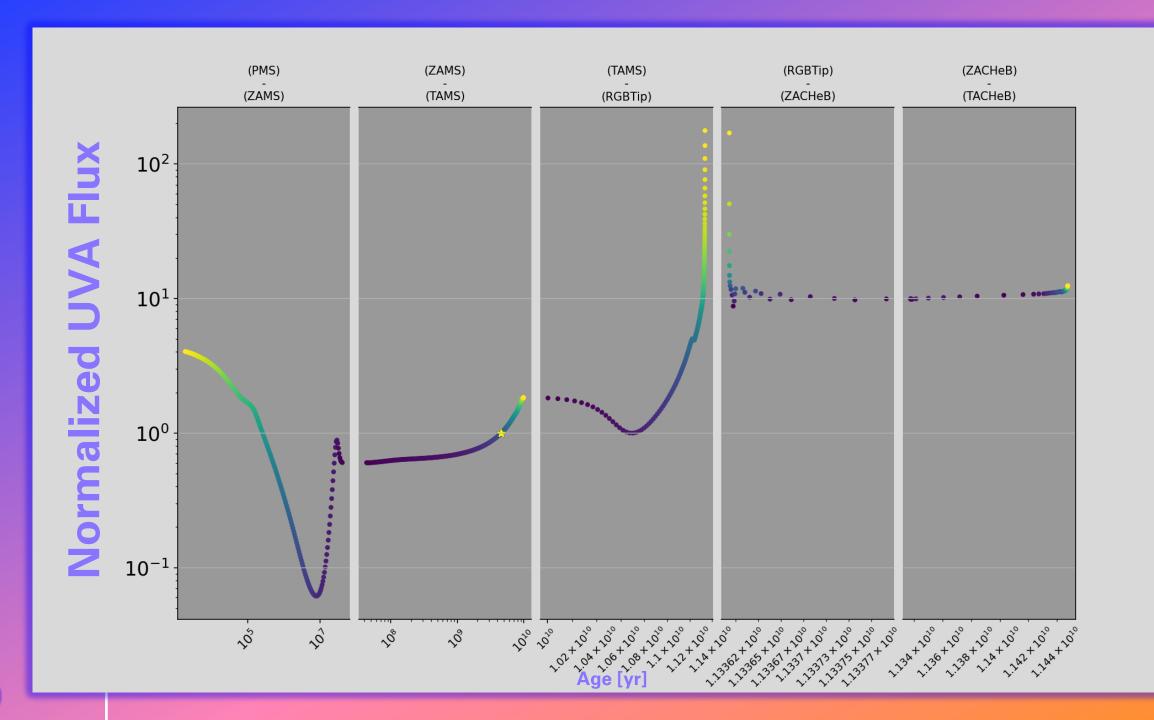
Liam Becker

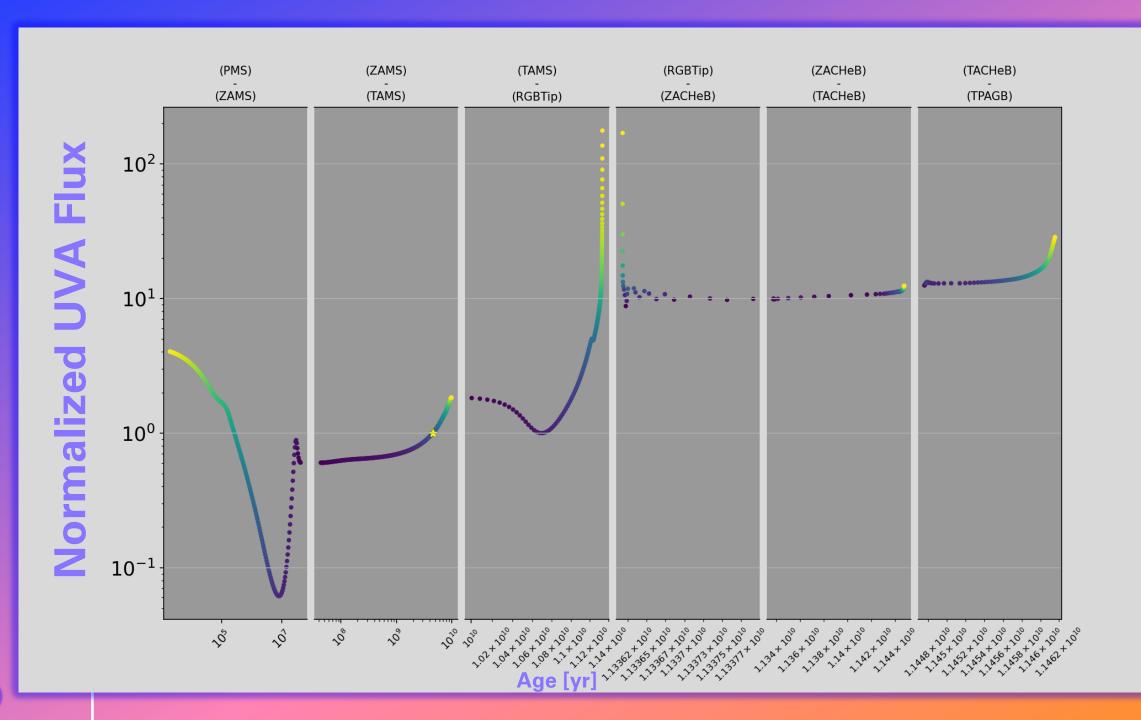


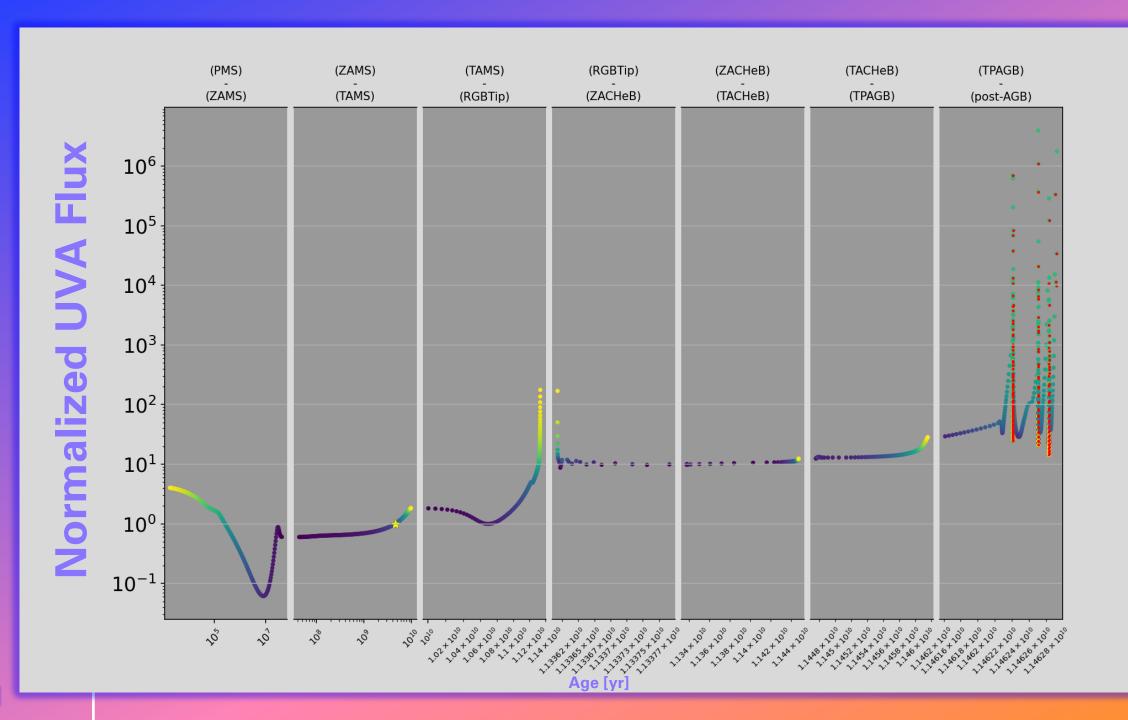


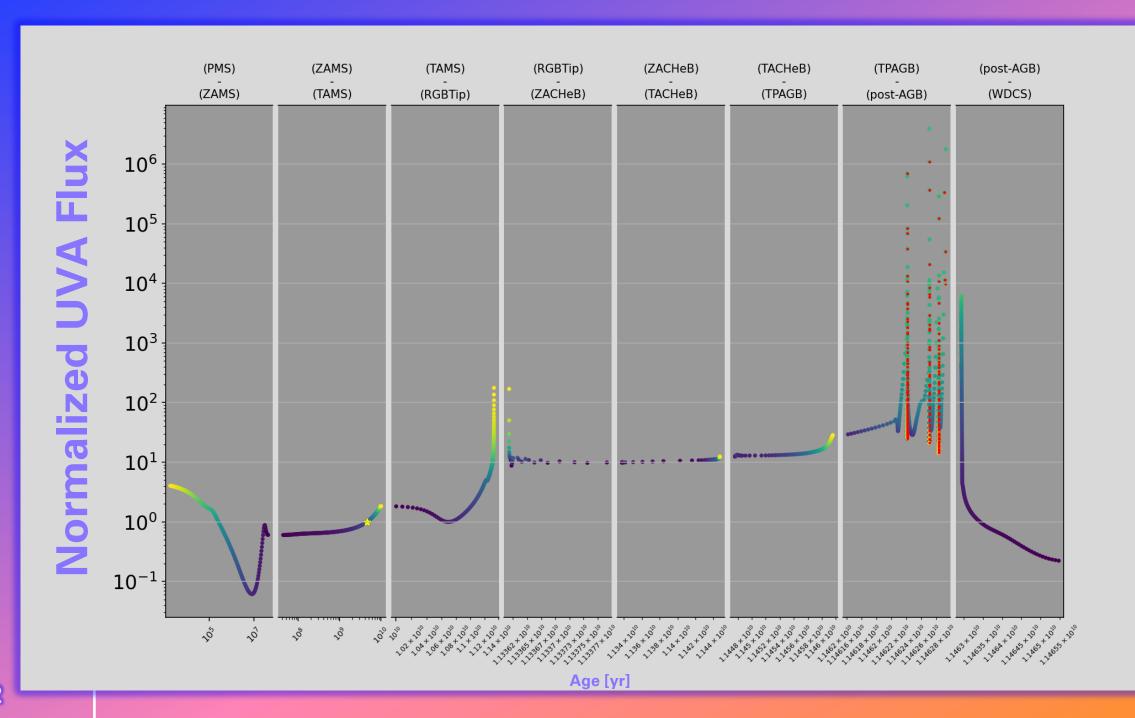












+

Thank you!