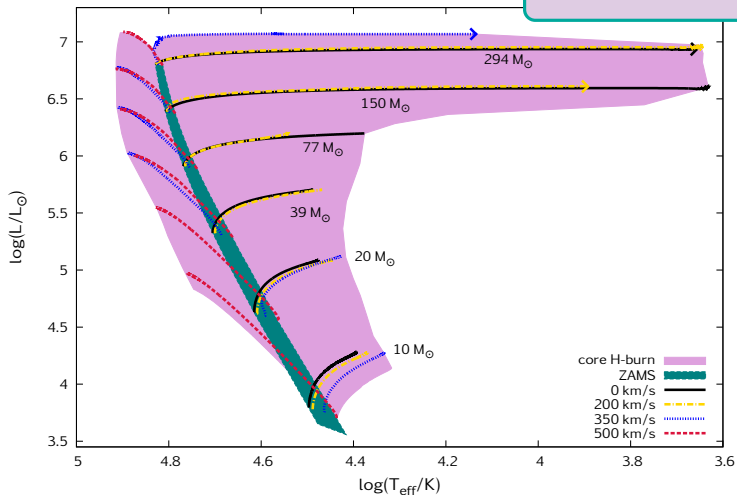


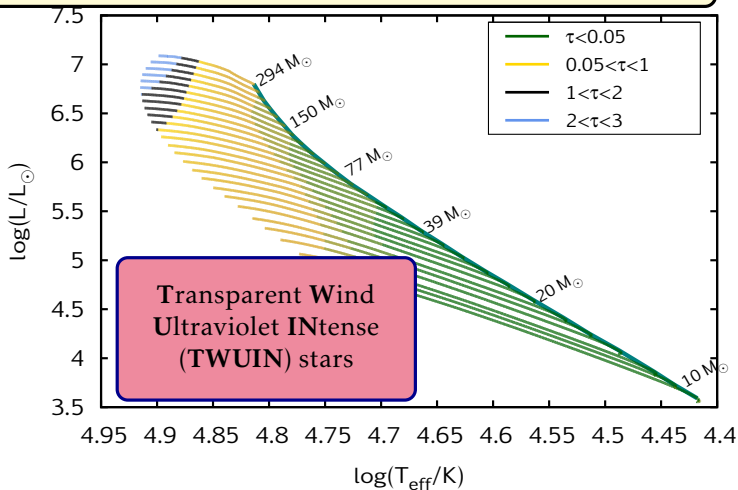
Dorottya Szécsi: TWUIN stars in I Zw 18

$Z=1/50 Z_{\odot}$ models from
Szécsi et al. 2015 (A&A)



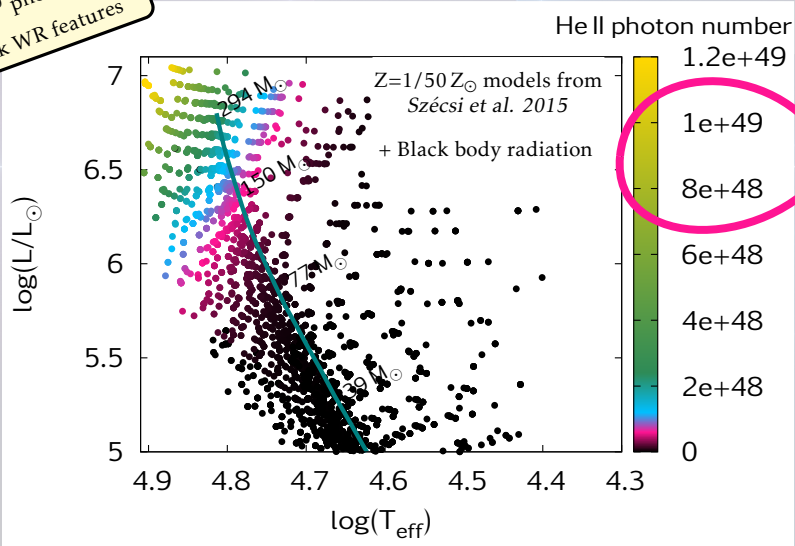
Dorottya Szécsi: TWUIN stars in I Zw 18

Main sequence lifetime: wind optical depth is $\tau \lesssim 1$



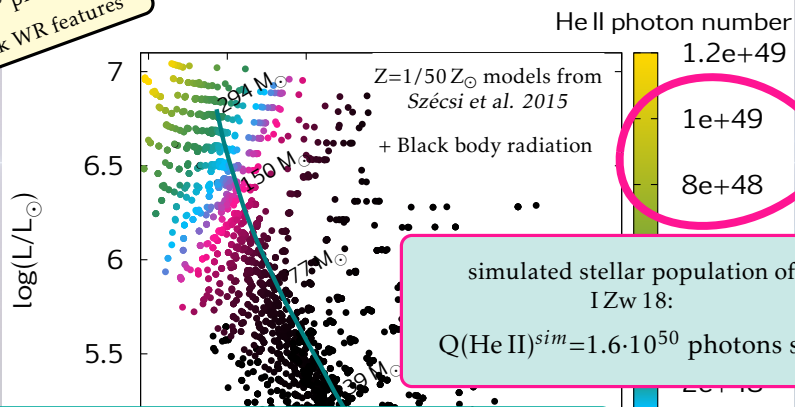
Dorottya Szécsi: TWUIN stars in I Zw 18

Photoionization
 $Q(\text{HeII})^{obs} = 1.3 \cdot 10^{50}$ photons s^{-1}
+ weak WR features



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Photoionization
 $Q(\text{HeII})^{obs} = 1.3 \cdot 10^{50} \text{ photons s}^{-1}$
+ weak WR features



simulated stellar population of I Zw 18:
 $Q(\text{He II})^{sim} = 1.6 \cdot 10^{50} \text{ photons s}^{-1}$

TWUIN stars → HeII flux of I Zw 18 ✓
Transparent Wind Ultraviolet INTense