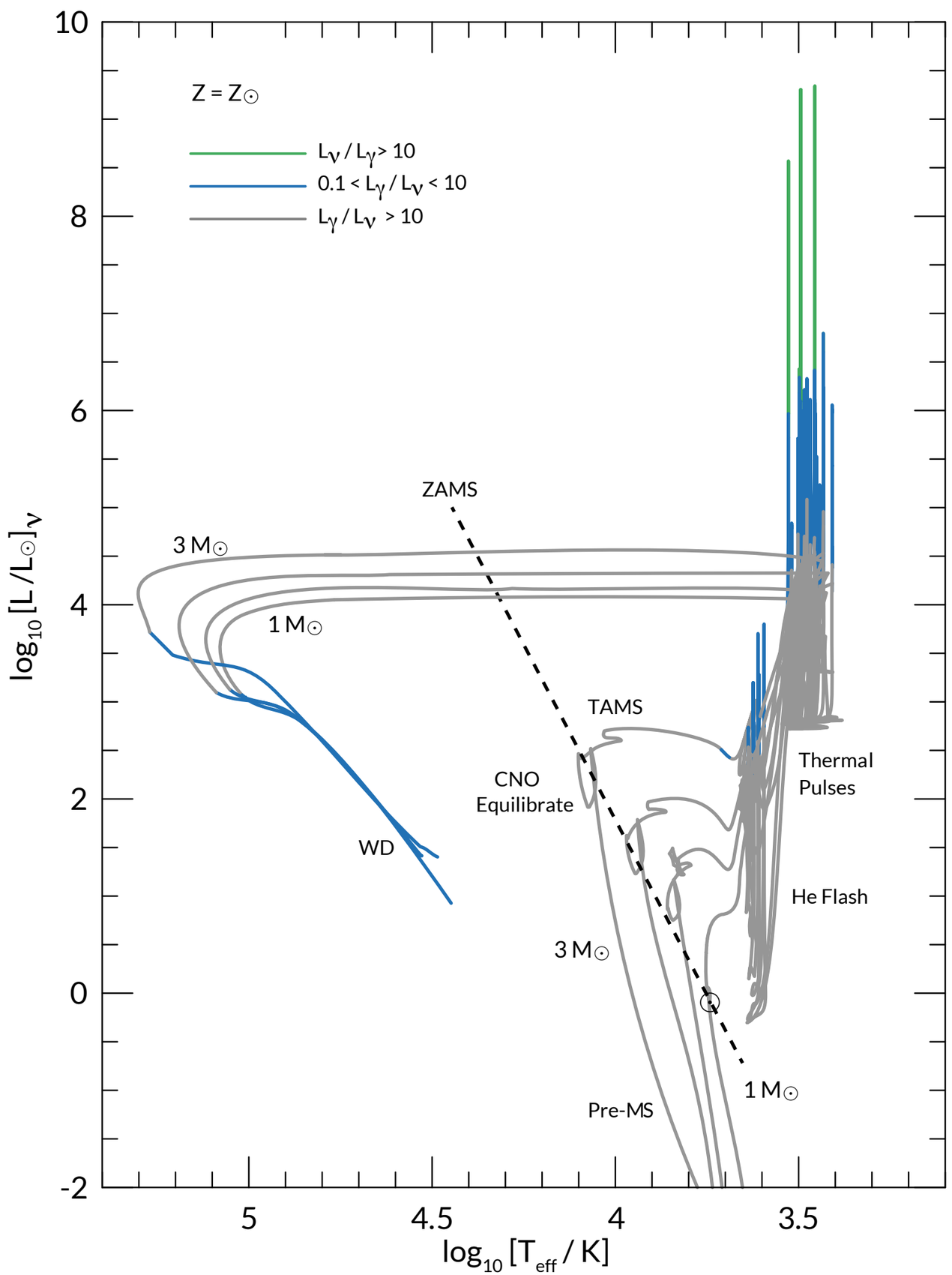
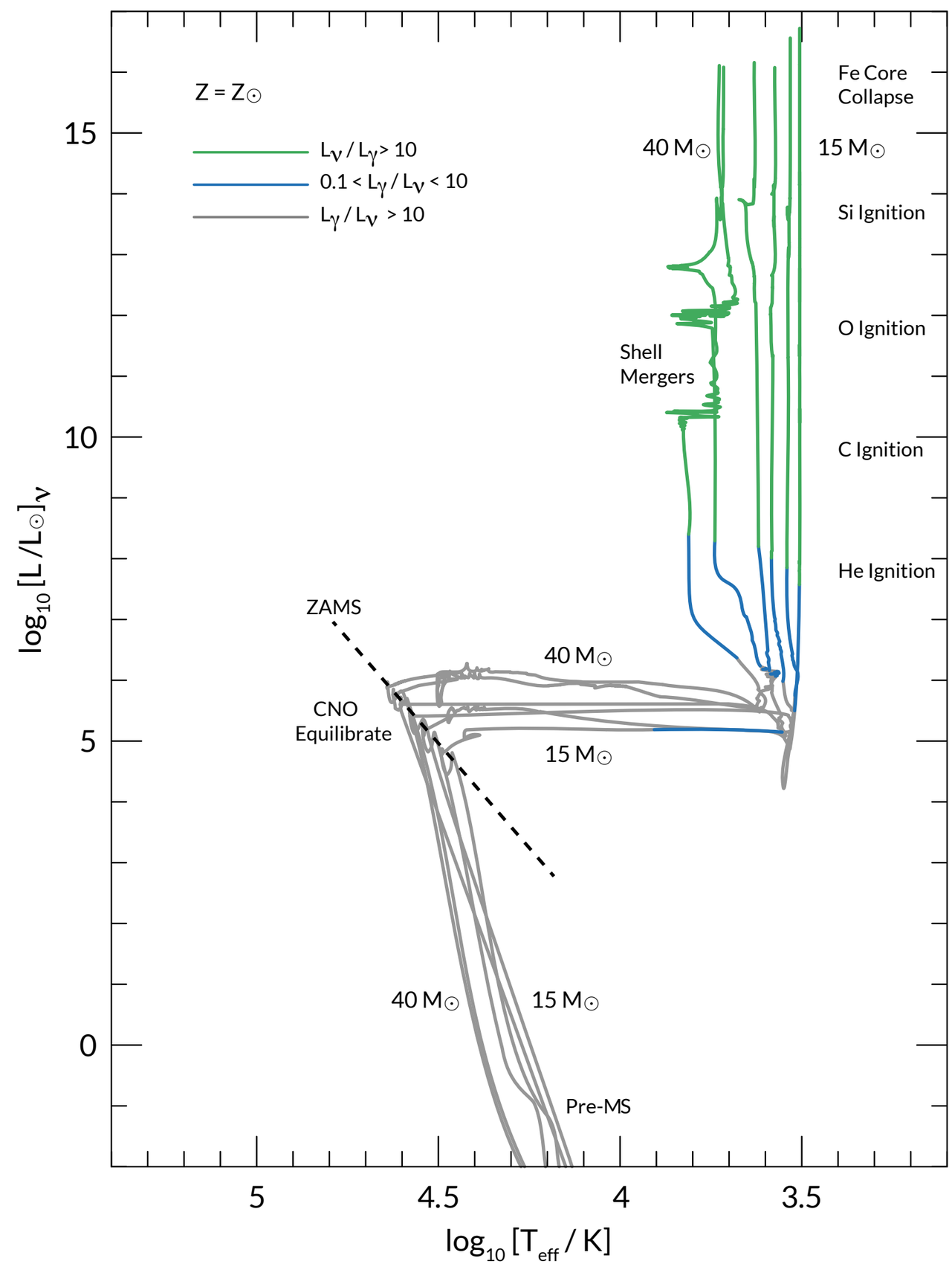

Z = Z⊙
Lν / Lγ > 10
0.1 < Lγ / Lν < 10
Lγ / Lν > 10
ZAMS
3 M⊙
1 M⊙
TAMS
CNO
Equilibrate
Thermal
Pulses
WD
He Flash
3 M⊙
1 M⊙
Pre-MS
log10 [L / L⊙]ν
log10 [Teff / K]
10
8
6
4
2
0
-2
5
4.5
4
3.5


Z = Z⊙
Lν / Lγ > 10
0.1 < Lγ / Lν < 10
Lγ / Lν > 10
Fe Core
Collapse
40 M⊙
15 M⊙
Si Ignition
O Ignition
Shell
Mergers
C Ignition
He Ignition
ZAMS
40 M⊙
CNO
Equilibrate
15 M⊙
40 M⊙
15 M⊙
Pre-MS
log10 [L / L⊙]ν
log10 [Teff / K]
15
10
5
0
5
4.5
4
3.5