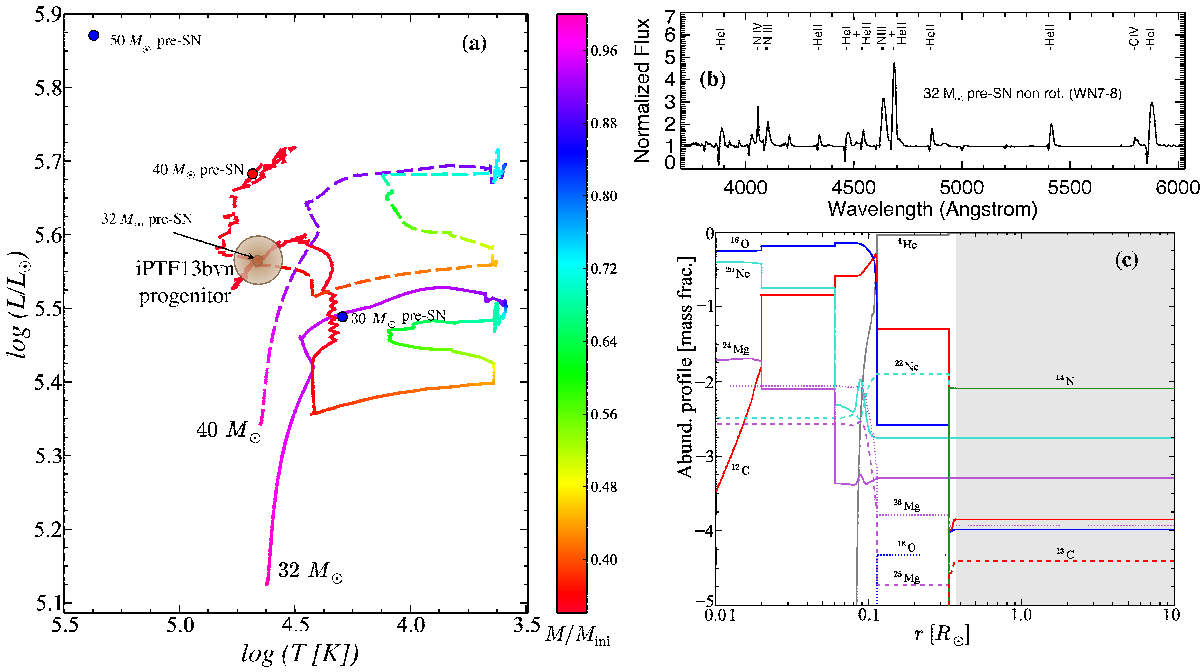
(a)
50 $M_\odot$ pre-SN
40 $M_\odot$ pre-SN
32 $M_\odot$ pre-SN
iPTF13bvn
progenitor
30 $M_\odot$ pre-SN
40 $M_\odot$
32 $M_\odot$
log ($L/L_\odot$)
log (T [K])
M/M_{ini}
(b)
32 $M_\odot$ pre-SN non rot. (WN7-8)
Normalized Flux
Wavelength (Angstrom)
(c)
Abund. profile [mass frac.]
r [$R_\odot$]