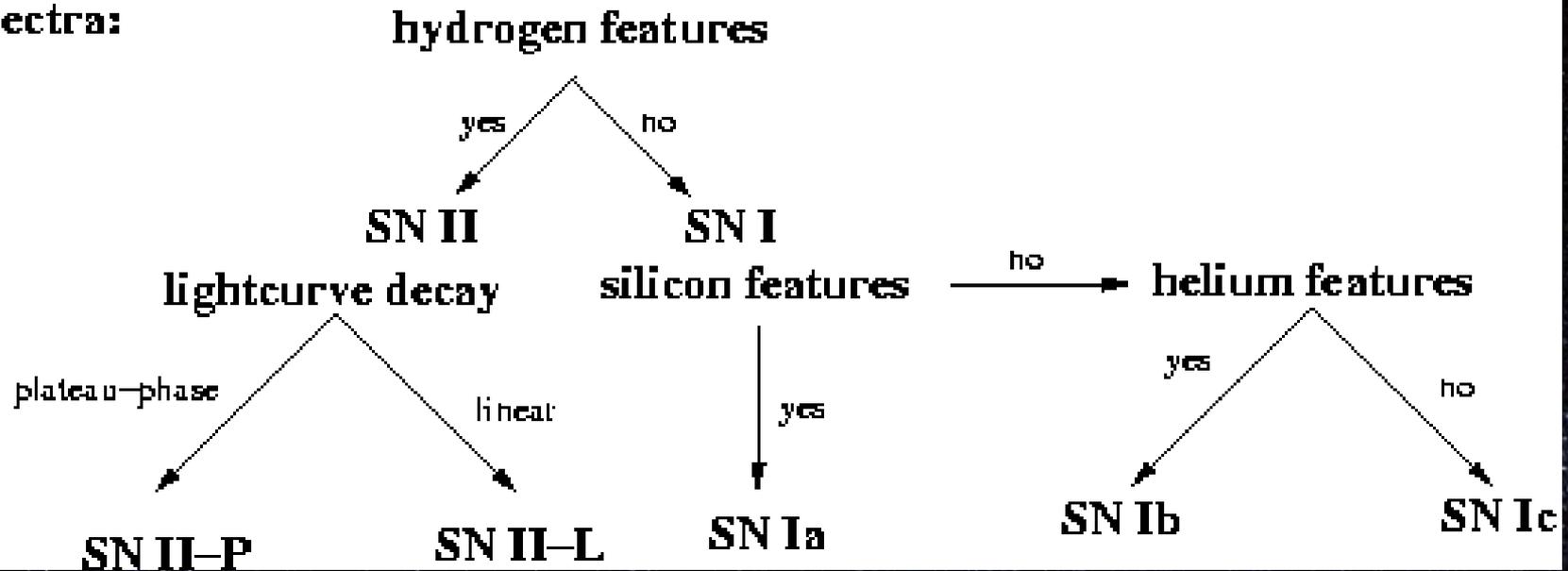
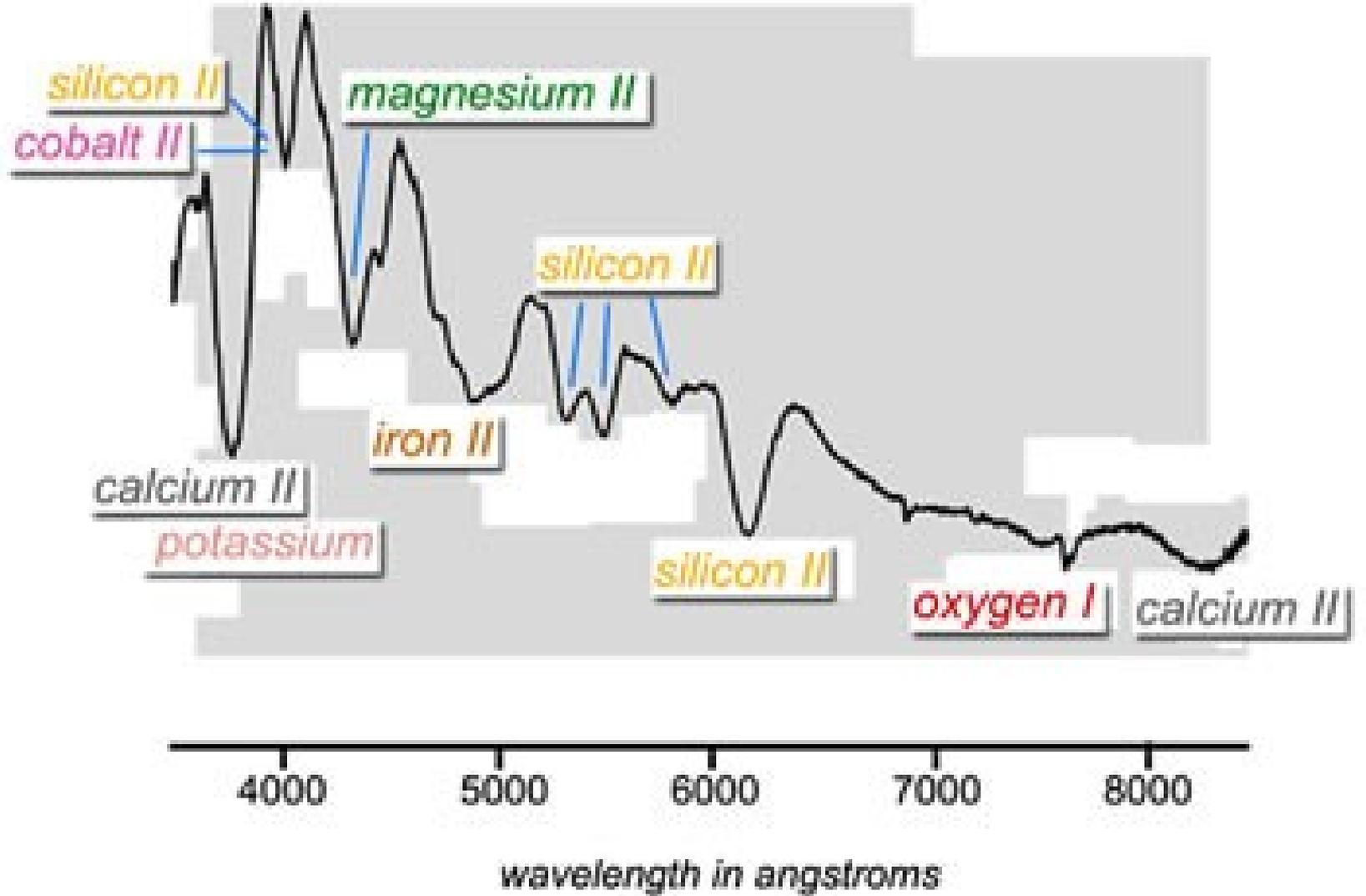


Supernova types Ia, Ib, Ic, II-P, II-L

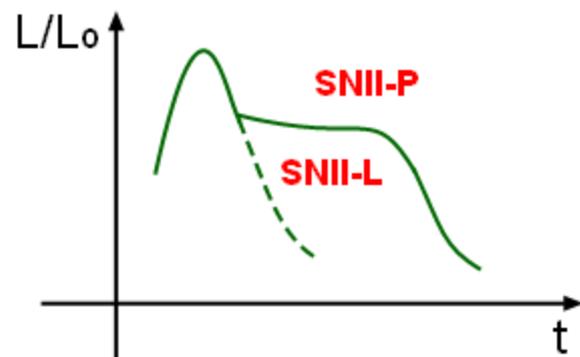
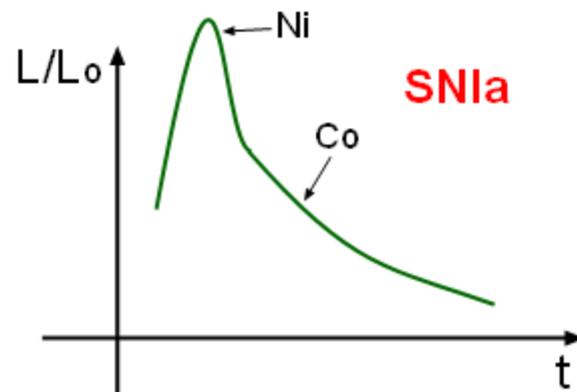
Early spectra:



TYPE 1A Spectrum



^{56}Ni has a 6 day half-life, it electron captures to ^{56}Co with a 77 day half-life, this electron captures to ^{56}Fe (stable)



spect (KieP59)
 others (SakM54, DidA58, ElHL43a, ShelR52, MacqP54)
 YY(0): (GrabZ60a, BertG57a, SakM55)
 $\beta\gamma(\theta)$: (GrabZ65, PetH61, DaniH64b, StevD51, MullH65)
 $\beta\gamma$ polaris(θ): (DaniH64b, ManaL62a, DaniH61)
 nucl align (DidA58, GallL55, PopO55, AmbE57)
 decay to 2.085 level of Fe⁵⁶: EC/ β^+ 0.1 (BereD65)
 1.45 level of Co⁵⁶: $t_{1/2}$ 1.6×10^{-9} s delay coin (WeidD63)

