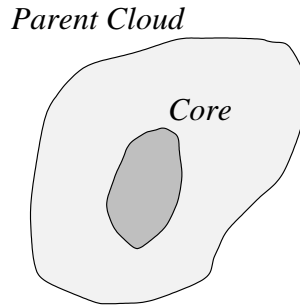
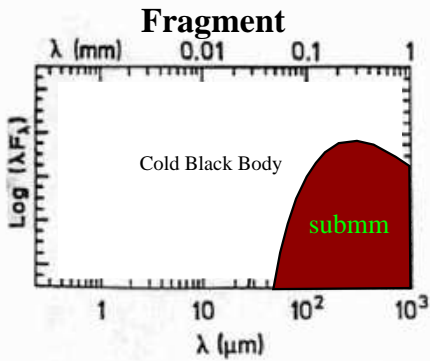


Pre-Stellar Phase



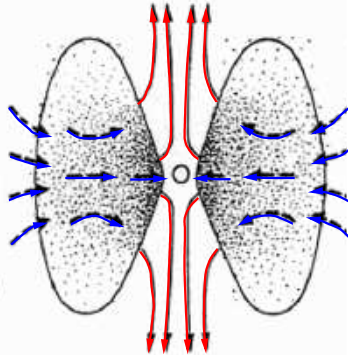
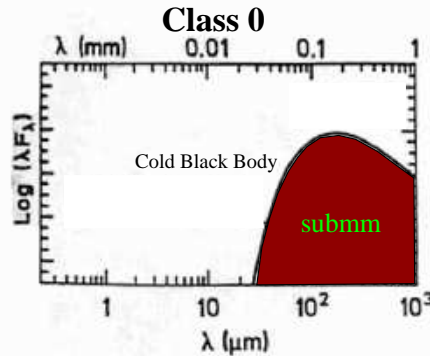
Pre-Stellar Dense Core
 $T_{\text{bol}} \sim 10\text{-}20\text{ K}$, $M_* = 0$

- 1 000 000 yr

Formation of the central protostellar object

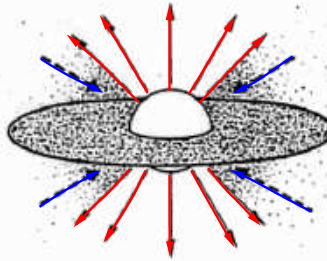
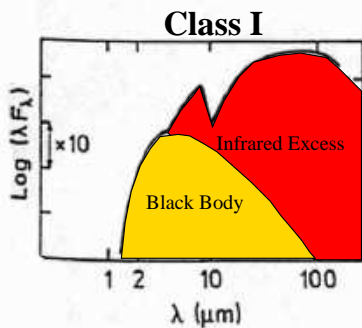
$t \sim 0\text{ yr}$

Protostellar Phase



Young Accreting Protostar
 $T_{\text{bol}} < 70\text{ K}$, $M_* \ll M_{\text{env}}$

< 30 000 yr

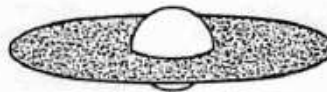
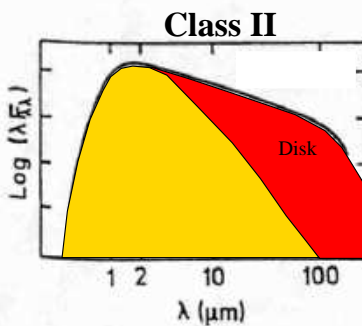


Evolved Accreting Protostar
 $T_{\text{bol}} \sim 70\text{-}650\text{ K}$, $M_* > M_{\text{env}}$

~ 200 000 yr

Birthline for

Pre-main sequence stars



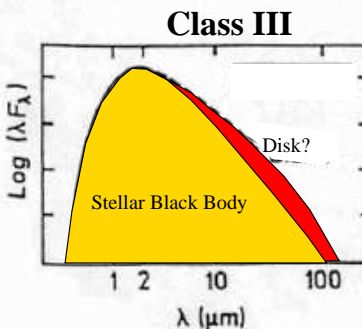
Protoplanetary Disk ?

Classical T Tauri Star

$T_{\text{bol}} \sim 650\text{-}2880\text{ K}$, $M_{\text{Disk}} \sim 0.01 M_{\odot}$

~ 1 000 000 yr

Pre-Main Sequence Phase



Debris + Planets ?

Weak T Tauri Star

$T_{\text{bol}} > 2880\text{ K}$, $M_{\text{Disk}} < M_{\text{Jupiter}}$

~ 10 000 000 yr

Time