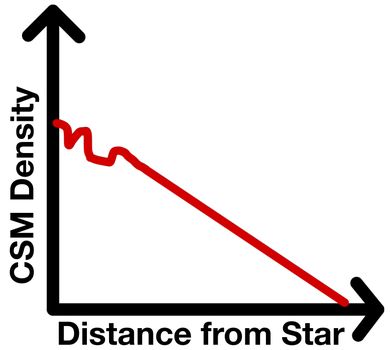
Unraveling the Effect of Binary Interactions in Circumstellar Medium

Non-interacting Binary

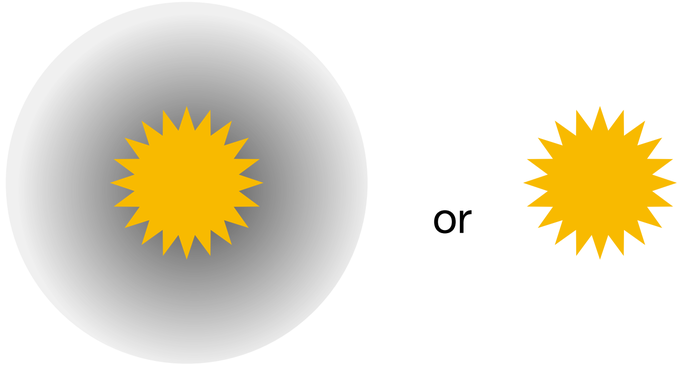


Explodes as a Type IIP / IIL Supernova

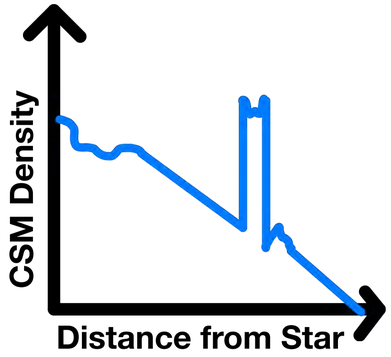


Stellar wind results in a simple density profile.

Case B Binary



Possible Explodes as a Type IIb / Ib / Ic Supernova

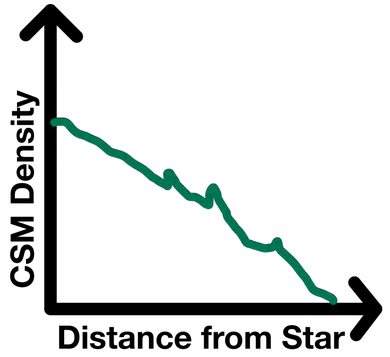


Mass ejected during the interaction forms a dense shell far from the stars.

Case C Binary



Explodes as a Type IIP / IIL Supernova



The environment reflects shifts between stellar wind and mass transfer domination.