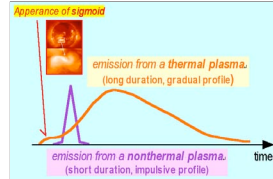


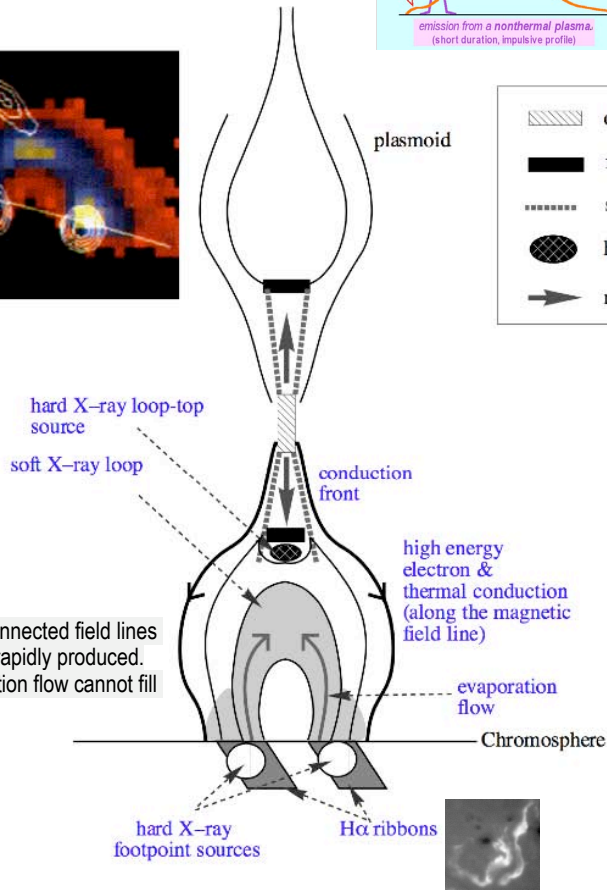
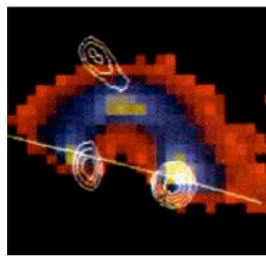
Energy transport and atmospheric responses

Impulsive flare vs. LDE flare; Impulsive phase vs. Gradual phase of an LDE flare



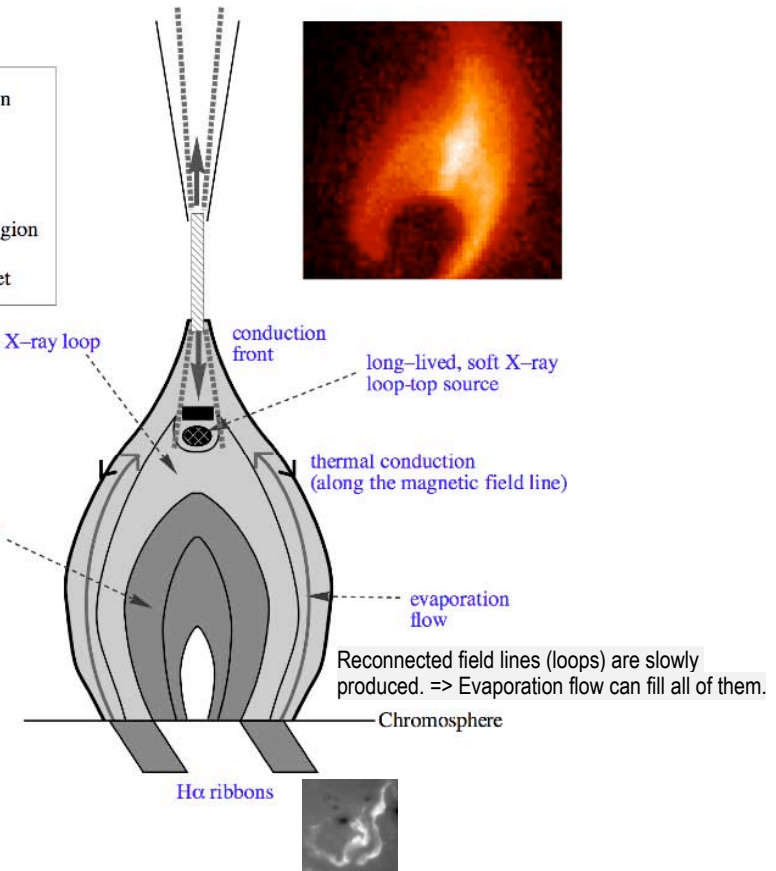
electron's dynamic process (conduction)... relatively fast
=> related to reconnection speed

proton's dynamic process (evaporation, jet)... relatively slow
=> related to reconnection duration

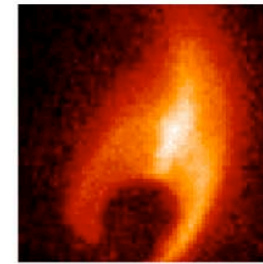


A lot of reconnected field lines (loops) are rapidly produced.
=> Evaporation flow cannot fill all of them.

Impulsive phase (or impulsive flare)



Gradual phase (or LDE flare)



Shibata & Magara (2011)