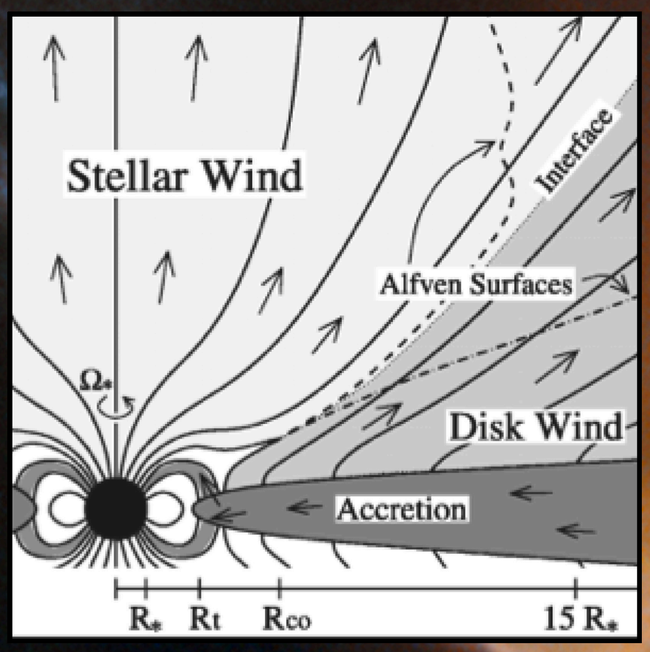
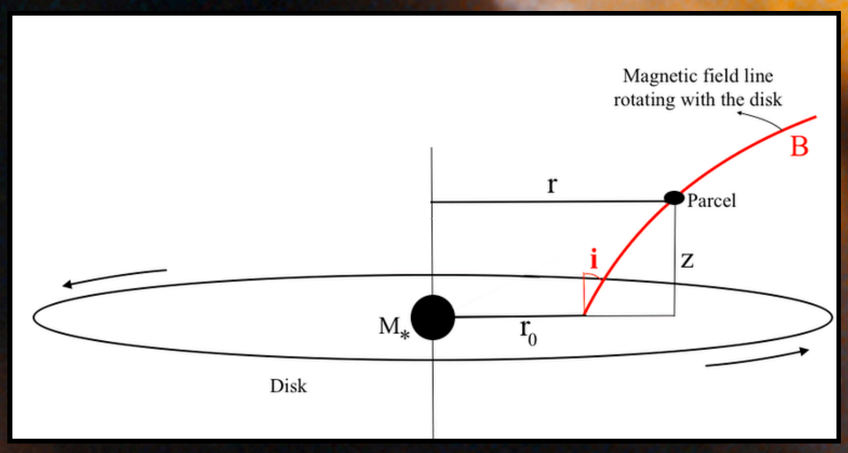
MECHANISM



Magnetized star–disk interaction within the Accretion Powered Stellar Wind model. Credit: Matt and Pudritz (2005).



Magneto-centrifugal mechanism proposed by Blandford & Payne (1982) : Amir Jafari

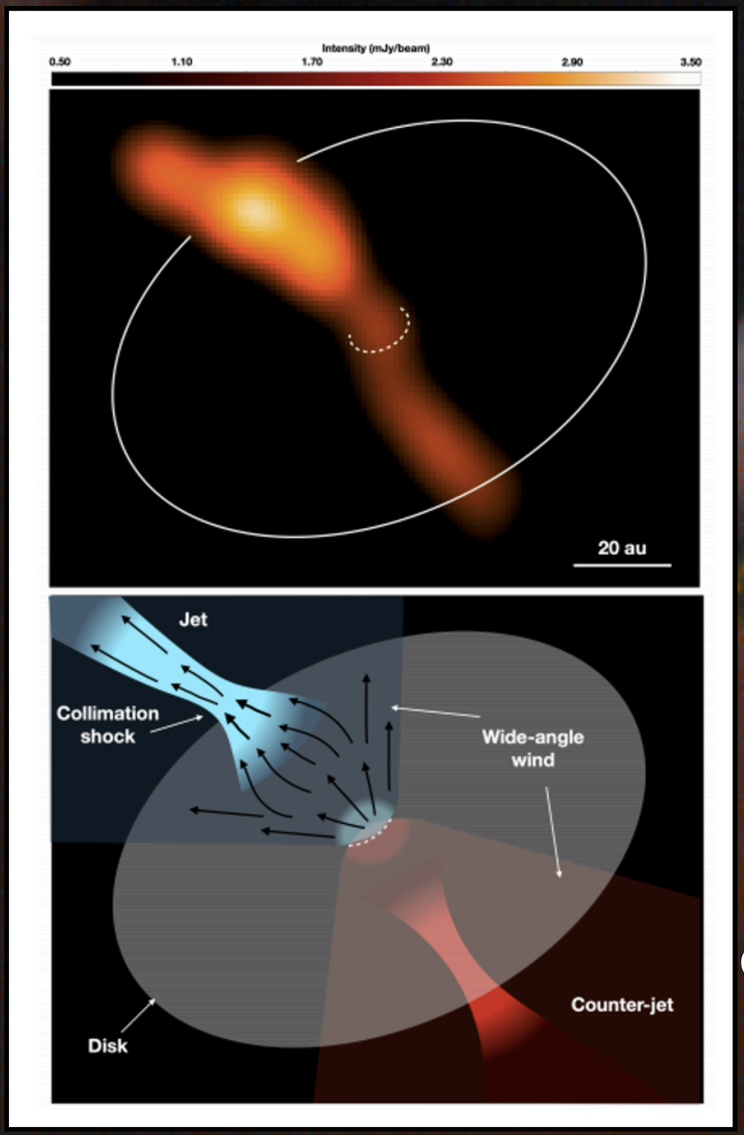
Lacks Thermal winds and Radiation driven winds

Less collimated outflows due to weaker magnetic field strength with low accretion and ejection power (comparing with those of AGNs)

Presence of an open magnetic field extending to infinity which dominates and rotates over the disk.

In an unstable condition , centrifugal force dominates and drives fluid outwards along field lines.

Once the fluid reaches Alfvén speed at Alfvén radius,fluid ceases to receive significant angular momentum or energy from the field line. Terminal velocity is reached.



(Above) VLA 40 GHz image of the jets in the massive protostar, Cep A HW2, at 40 milli-arcsec resolution. (Below) The model for the conical wind and the narrow jet. [Carlos Carrasco-Gonzales (Instituto de Radioastronomıa y Astrofisica, IRyA-UNAM) et al]