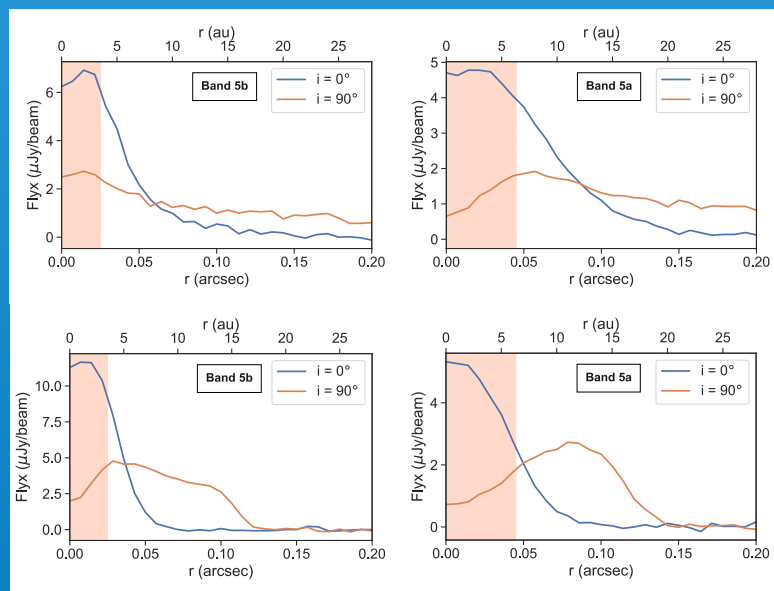
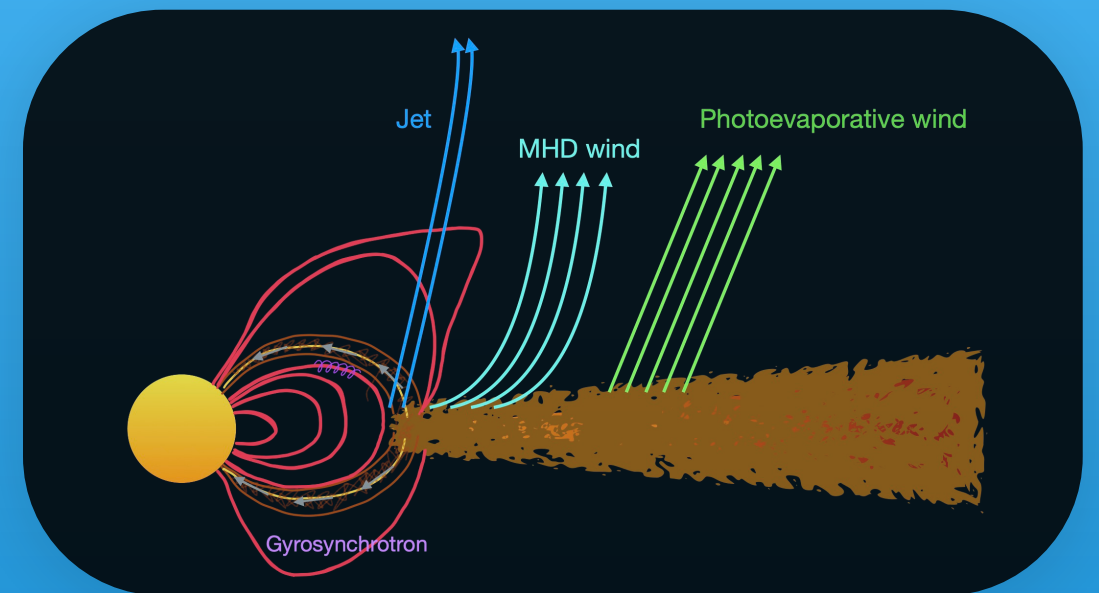


IONIZED GAS EMISSION IN PROTOPLANETARY DISKS WITH THE SKAO

Greta Guidi¹, Christian Rab,^{2,3} Barbara Ercolano,² Michael L. Weber,² Claudio Codella,⁴ Evgenia Koumpia,^{5,6} John D. Ilee,⁷ Enrique Macías,⁸ Yin hao Wu,⁹ Francesca Bacciotti,⁴ Asmita Bhandare,¹⁰ Eleonora Bianchi,⁴ Tyler Bourke,¹¹ Izaskun Jimenez-Serra,¹² Antonio Garufi,¹³ Geoffroy Lesur,¹ Linda Podio,⁴ Giovanni Sabatini⁴ and Claudia Toci^{8,14}

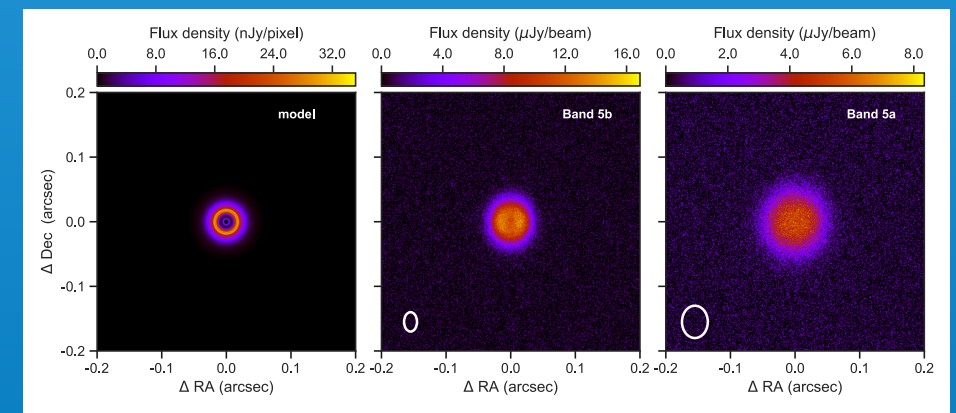
Observations of disk wind tracers with SKA-Mid

Free-free emission

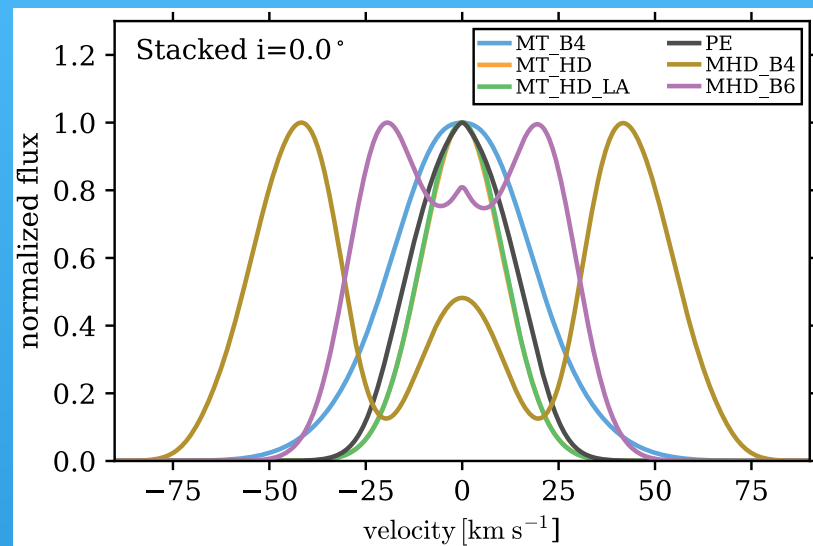


Photoevaporative

Magneto-thermal



Hydrogen recombination lines



Stacked lines can be detected and spectrally resolved with SKA-Mid

Predicted fluxes for H α recombination lines for 5 different models, at a distance of 140 pc, inclination of $i = 40^\circ$ and a bandwidth of 1 km/s.

