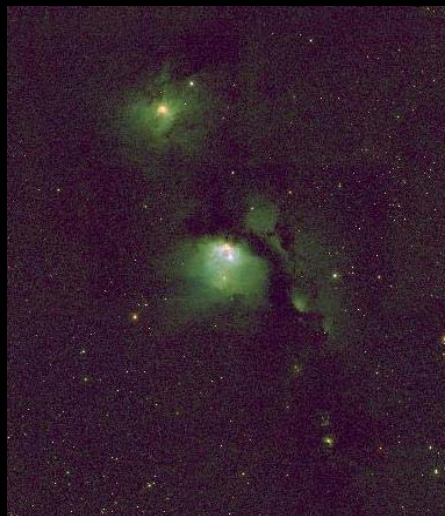
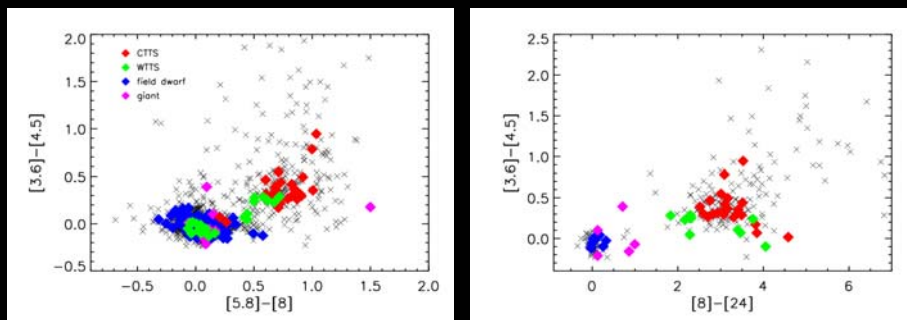
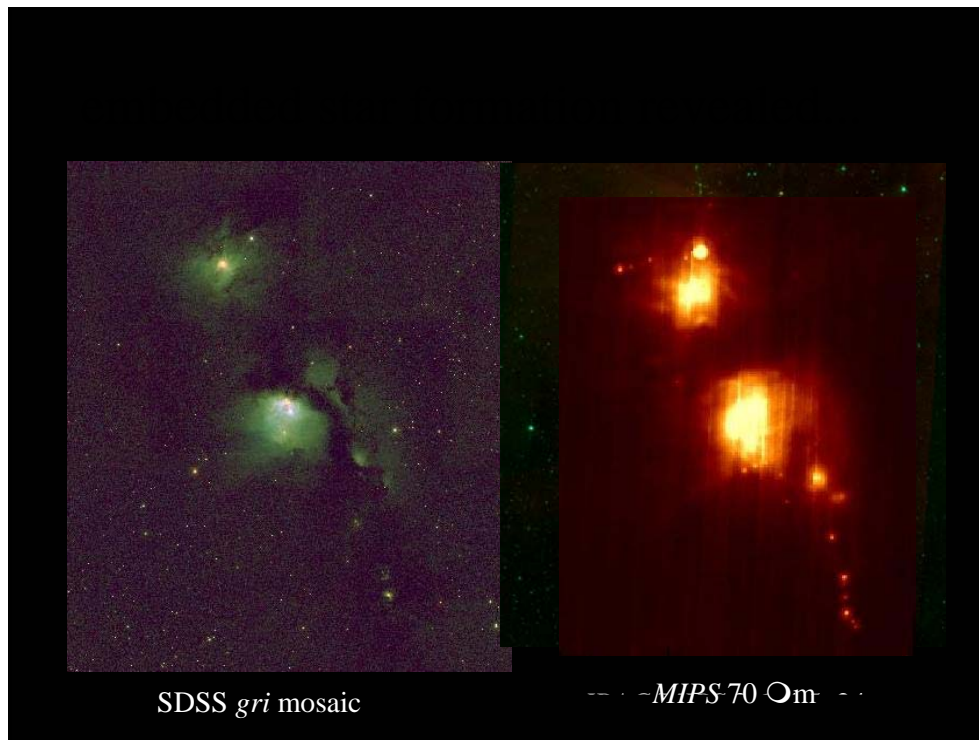


James Muzerolle

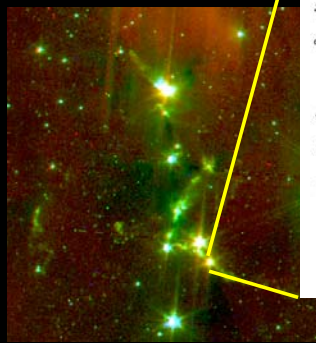
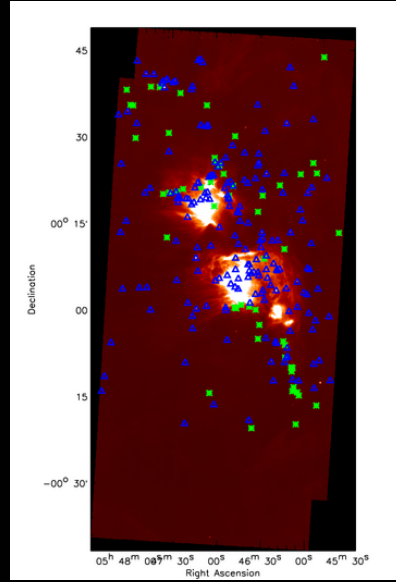
- embedded star formation region in L1630, Orion B molecular cloud
- $t \sim 1$ Myr
- hundreds of PMS stars, most massive members $\sim B1-2$
- excellent laboratory for studying early protostellar and disk evolution
- IRAC/MIPS maps cover ~ 1 sq. degree



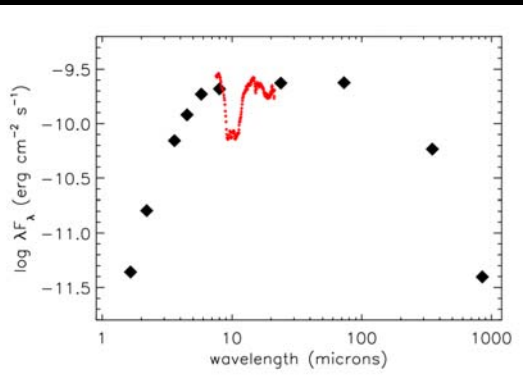


- disk, envelope sources occupy distinct loci
- contamination from AGB, AGN, only few %

- ~50 Class I, 200 Class II
- protostars arranged in linear structures
- Class II more widely distributed



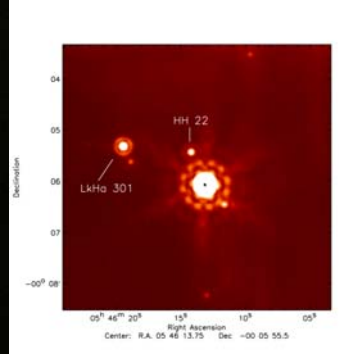
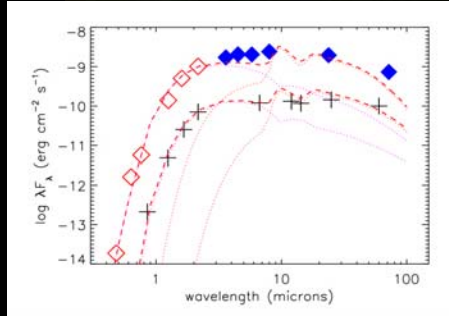
IRAC 3.6, 4.5, 8 microns



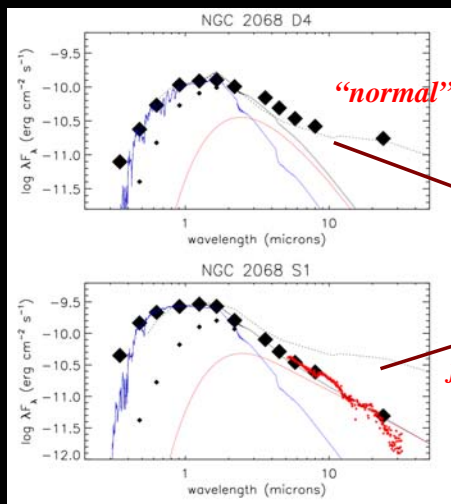
MIPS 70 microns



SCUBA 850 microns

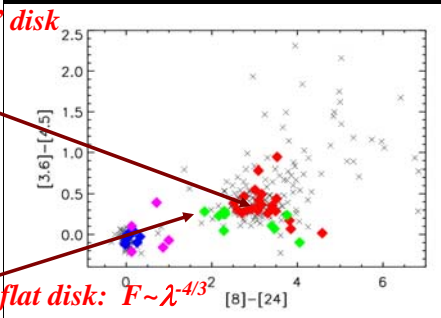


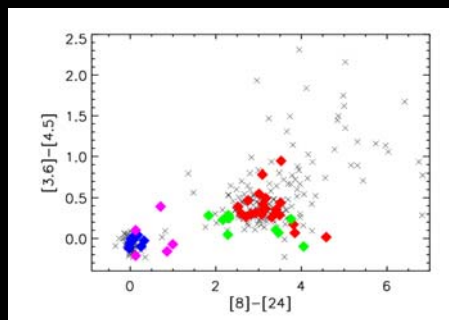
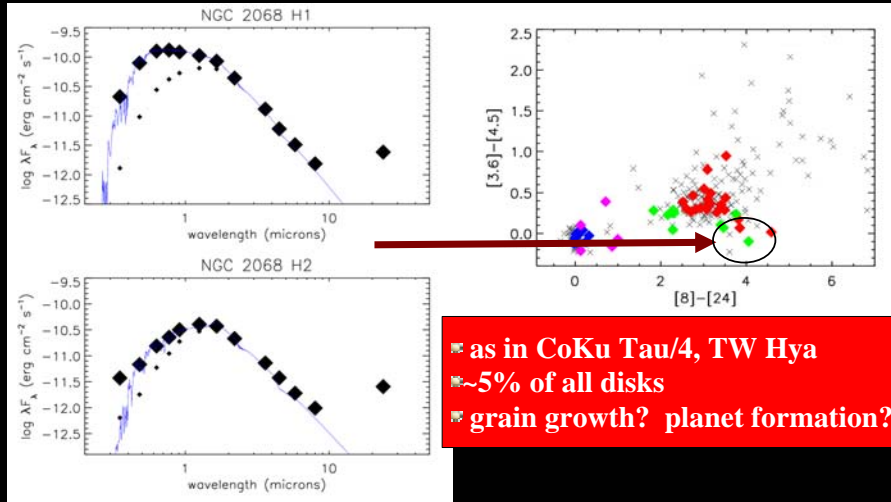
- L_{bol} increased from 3 – 44 L_{sun}
- accretion disk + envelope
- EXor??



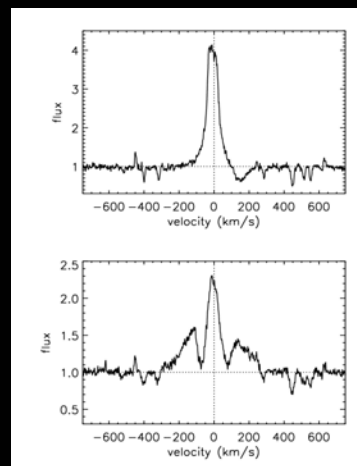
“normal” disk

flat disk: $F \sim \lambda^{-4/32}$





- usual accretion criterion at K7:
 $EW(H\alpha) > 10 \text{ \AA}$
- some exhibit strong IR excess



- full range of protostellar and circumstellar disk behavior on display in NGC 2068/2071, often within < 1 pc
- Class I objects associated with dense gas, mostly distributed in linear structures
- at $t \sim 1$ Myr, Class II objects show a surprisingly wide range of properties, including dust settling and inner disk clearing

– age not the only factor in disk evolution!
initial conditions more important??

- etc

