

IDENTIFICATION OF TRANSITIONAL DISKS IN CHAMELEON WITH HERSCHEL

ALVARO RIBAS
(ESA/CAB)

BRUNO MERIN (ESA)

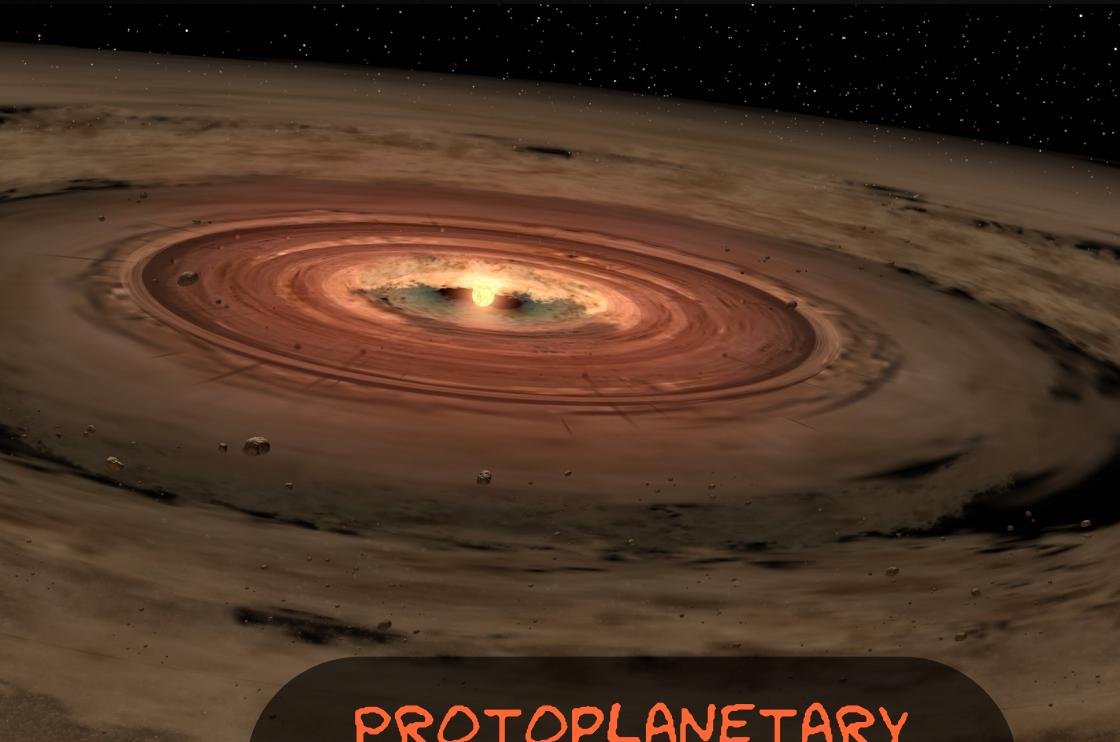
HERVE BOUY (CAB)

CATARINA ALVES DE
OLIVEIRA (ESA)

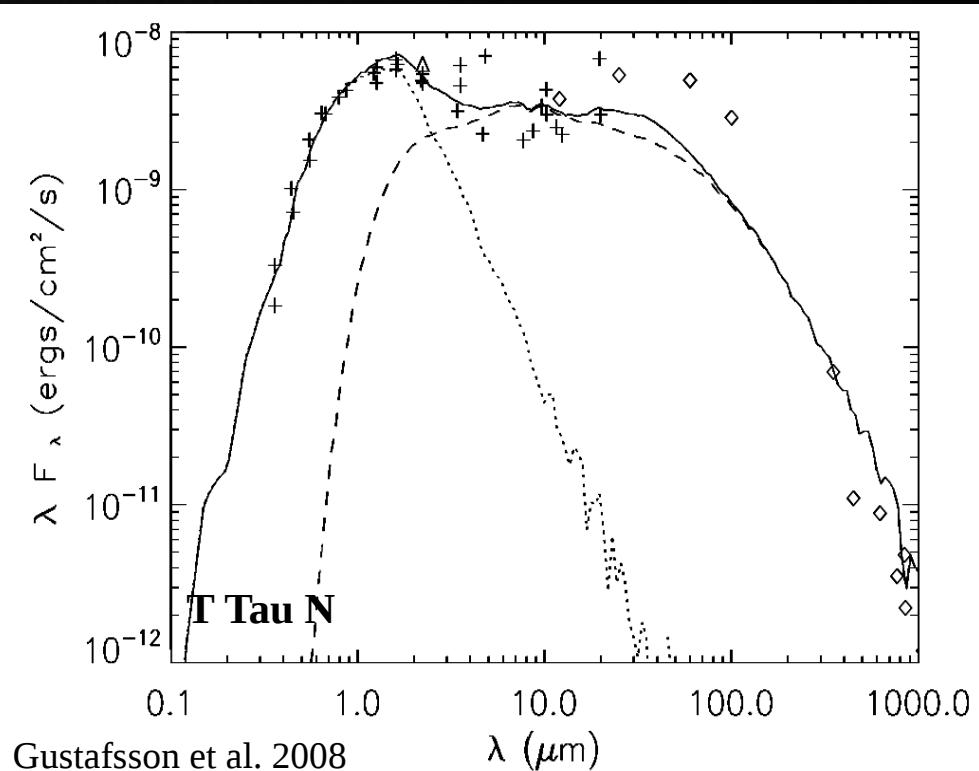
ELENA PUGA (ESA)

(AND MORE!)

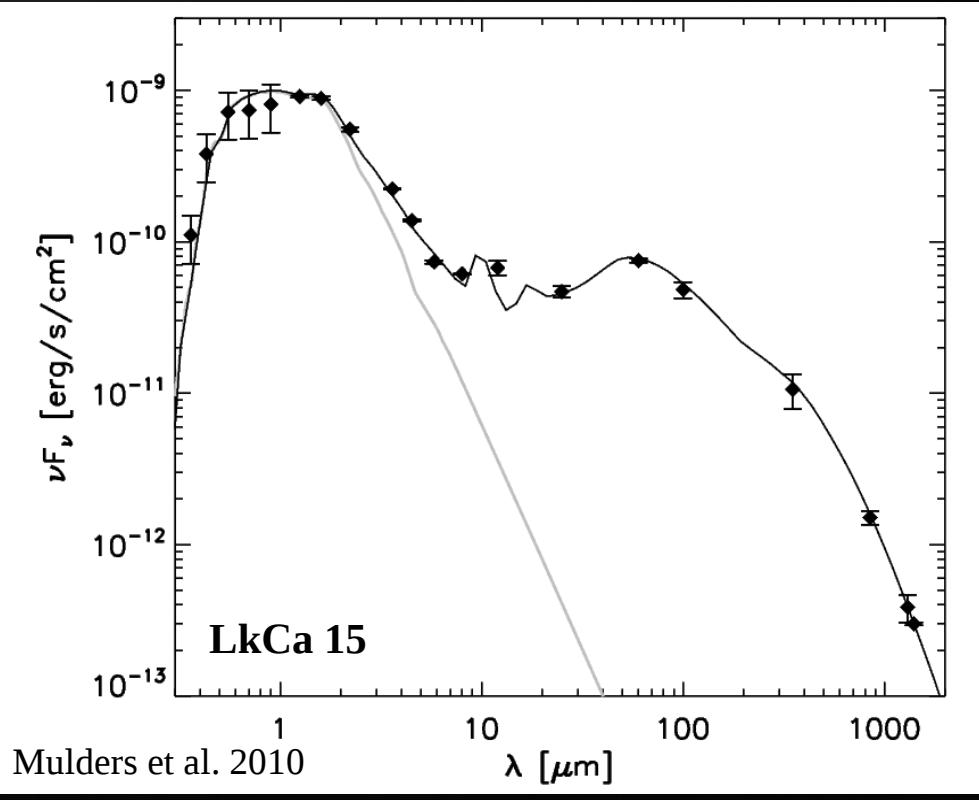




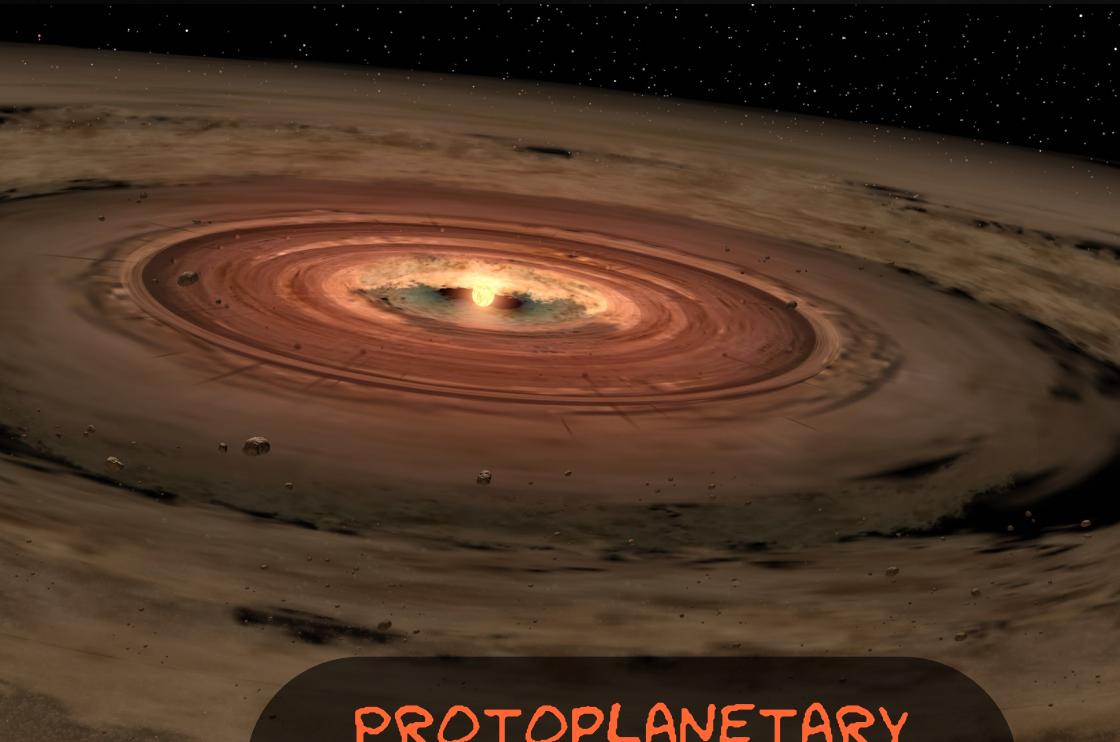
PROTOPLANETARY
VS
TRANSITIONAL



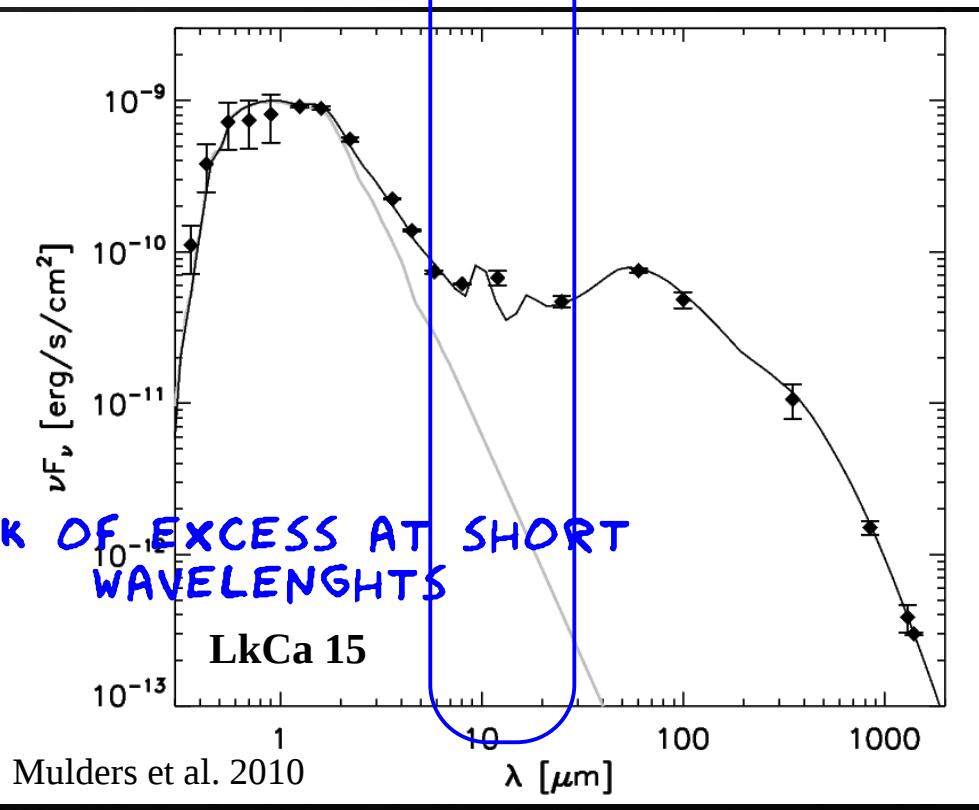
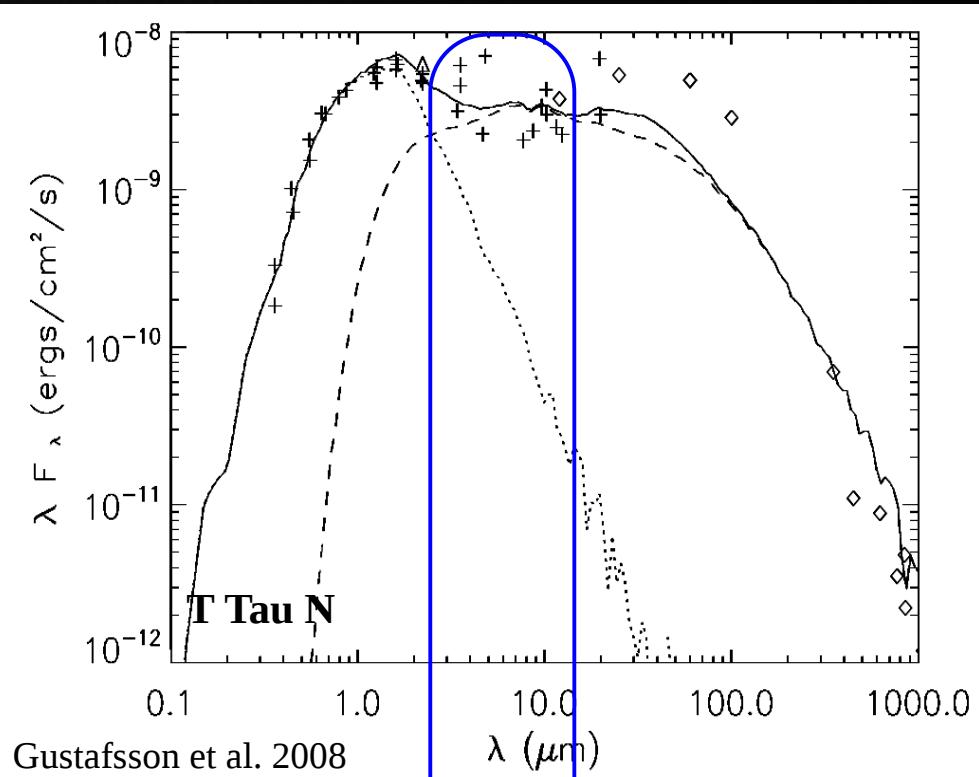
Gustafsson et al. 2008

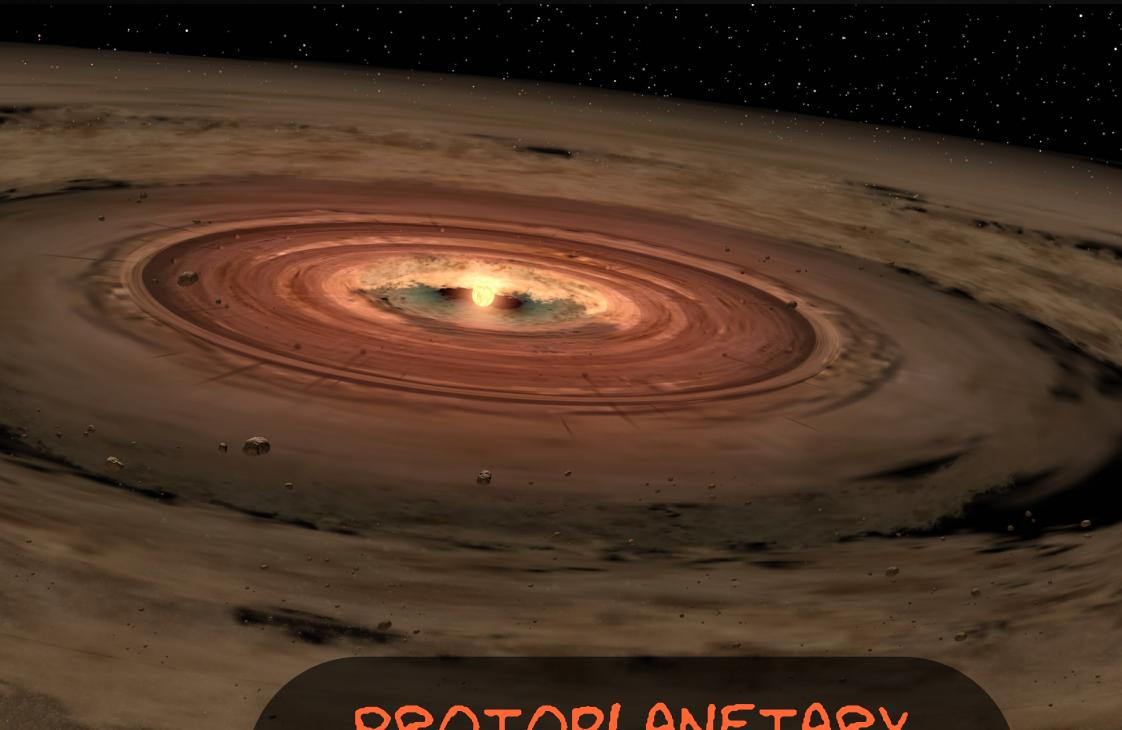


Mulders et al. 2010

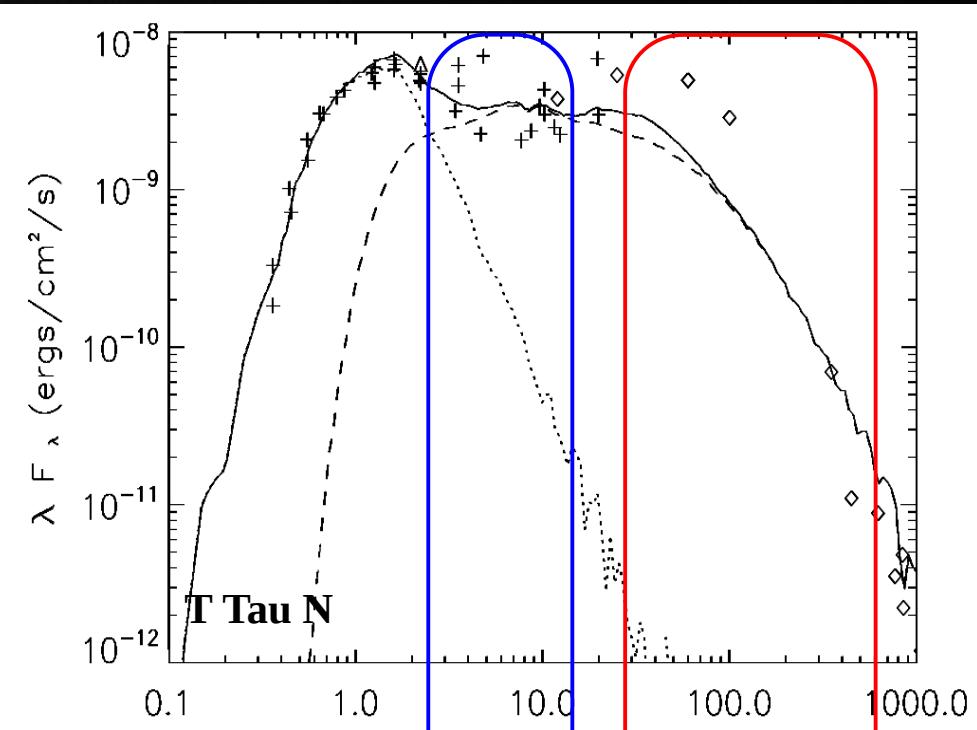


PROTOPLANETARY
VS
TRANSITIONAL

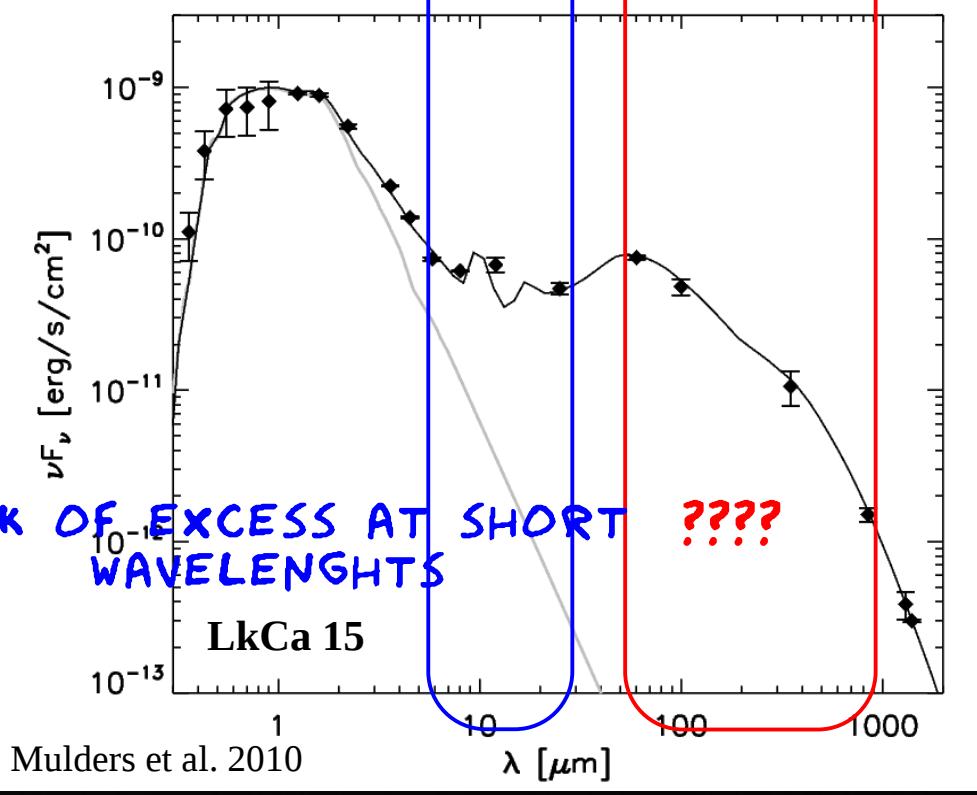




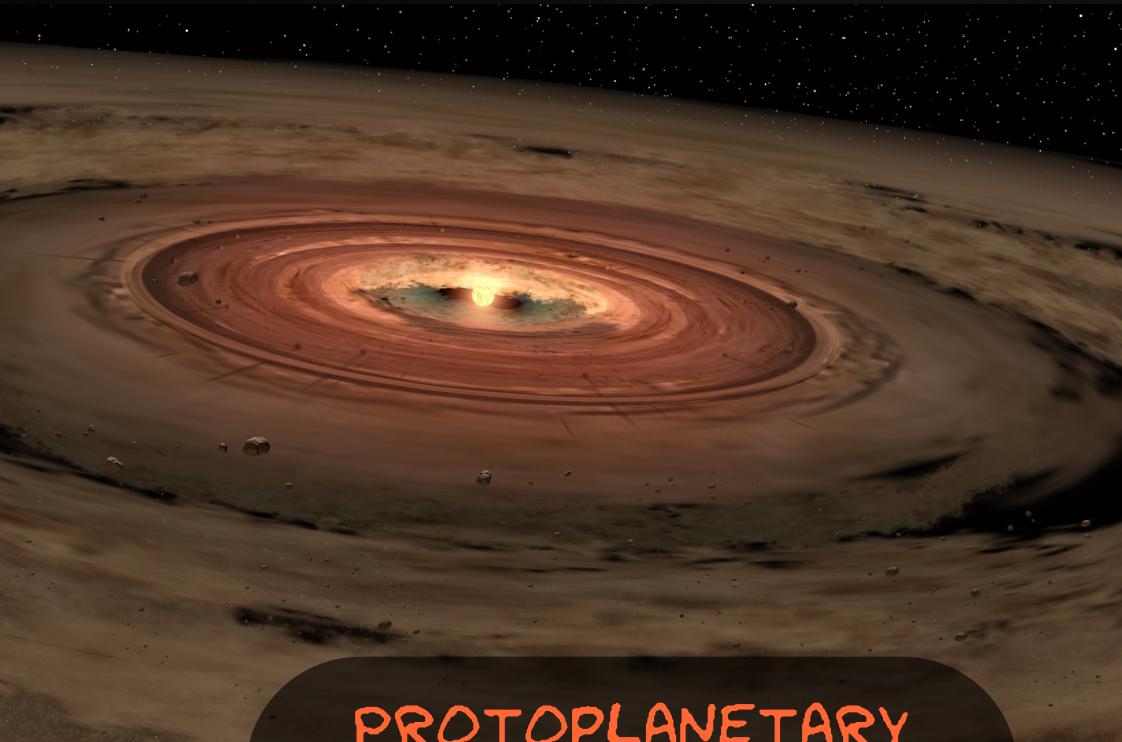
PROTOPLANETARY
VS
TRANSITIONAL



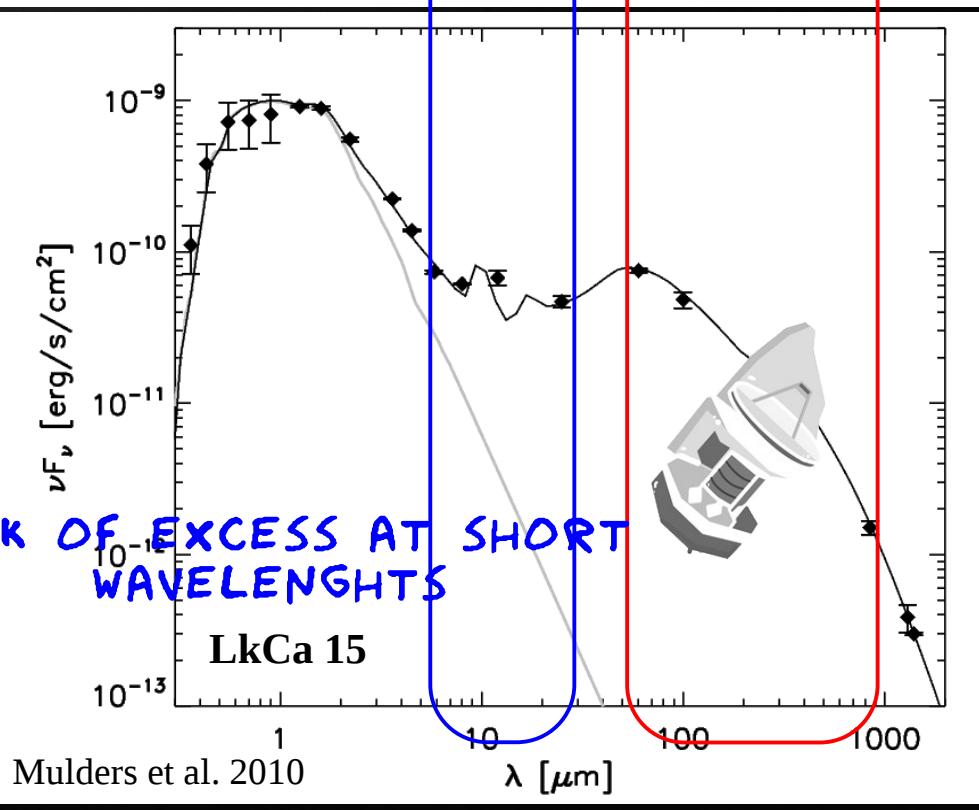
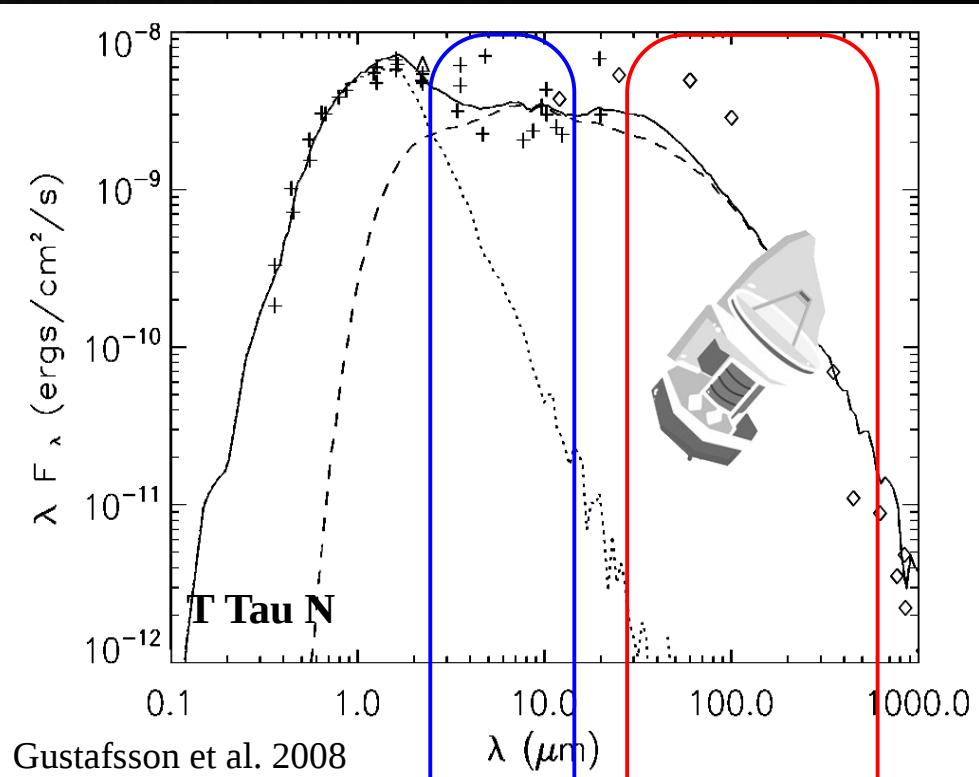
Gustafsson et al. 2008



LkCa 15
Mulders et al. 2010



PROTOPLANETARY
VS
TRANSITIONAL



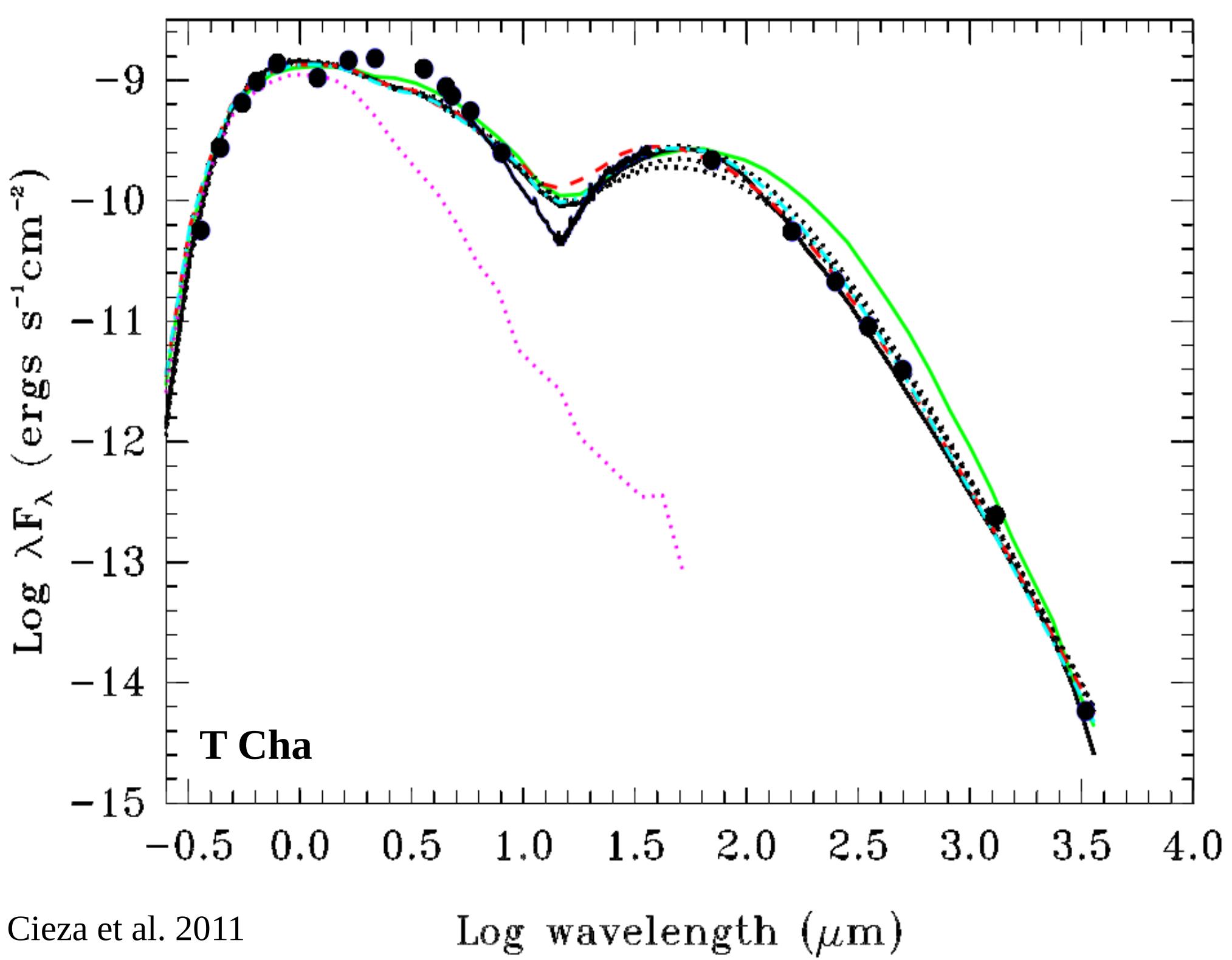


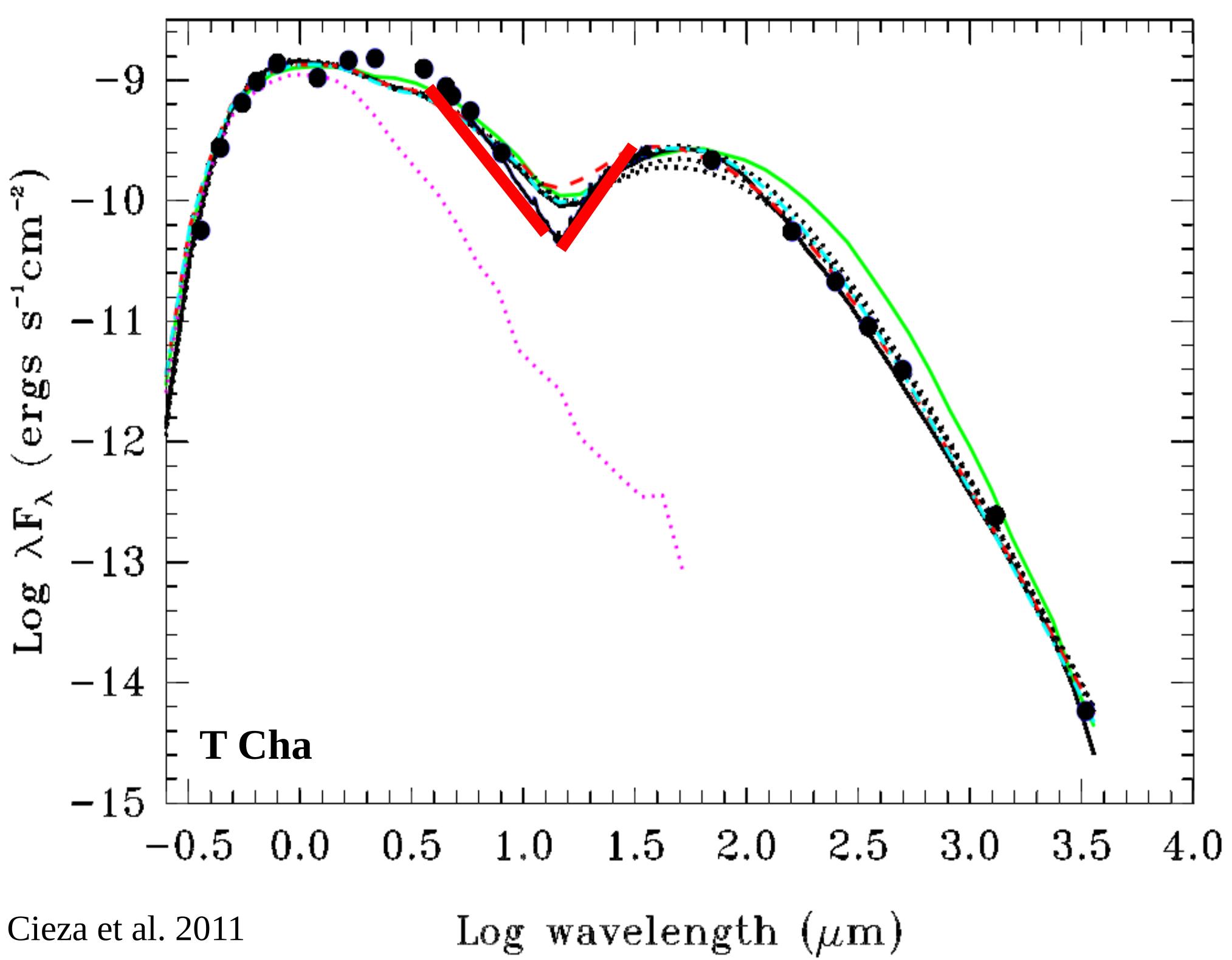
CHAMELEON I

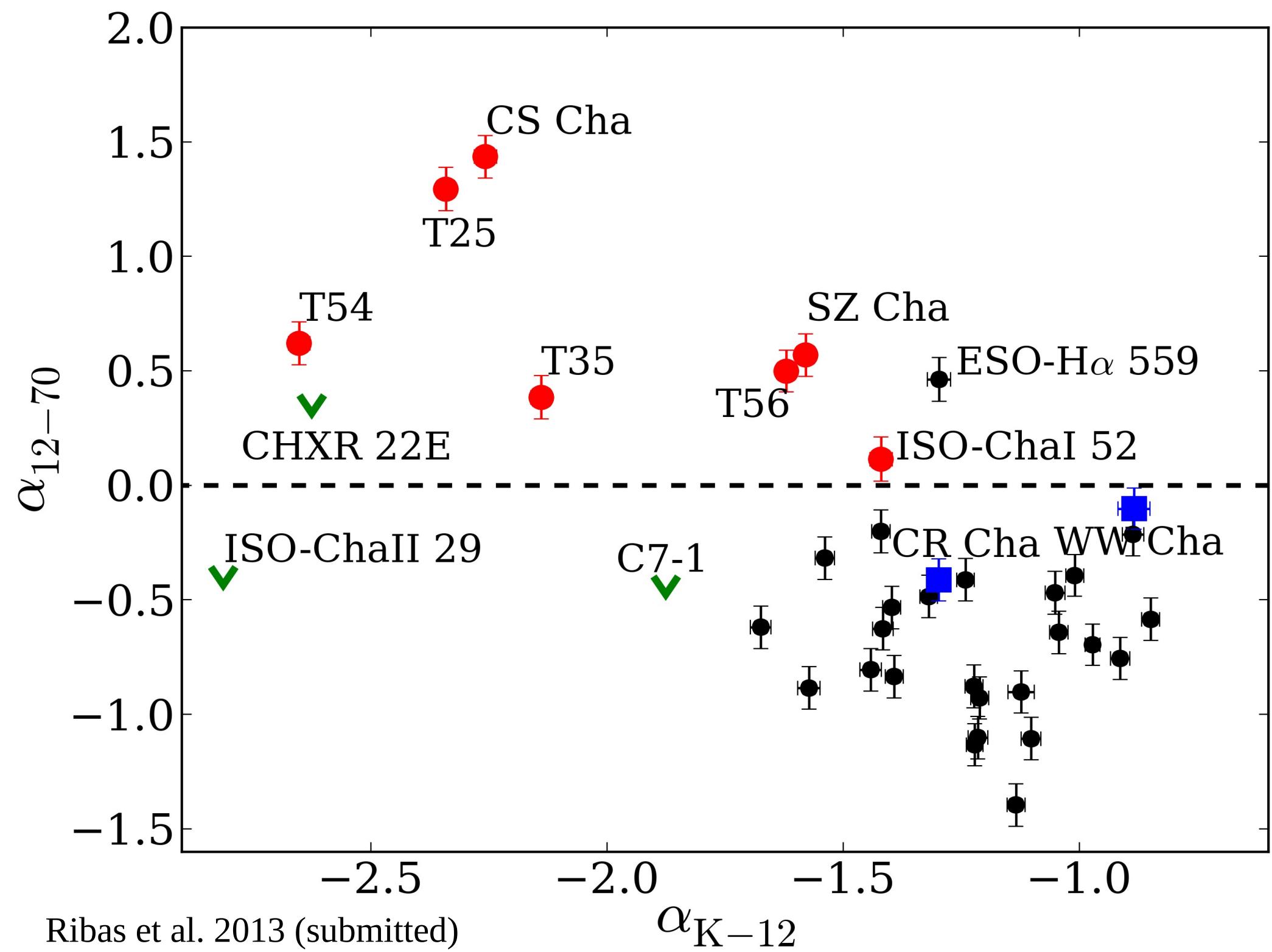
CHA I AND II :
- 119 CLASS II DISKS
- 12 OF THEM ARE
TRANSITIONAL DISKS

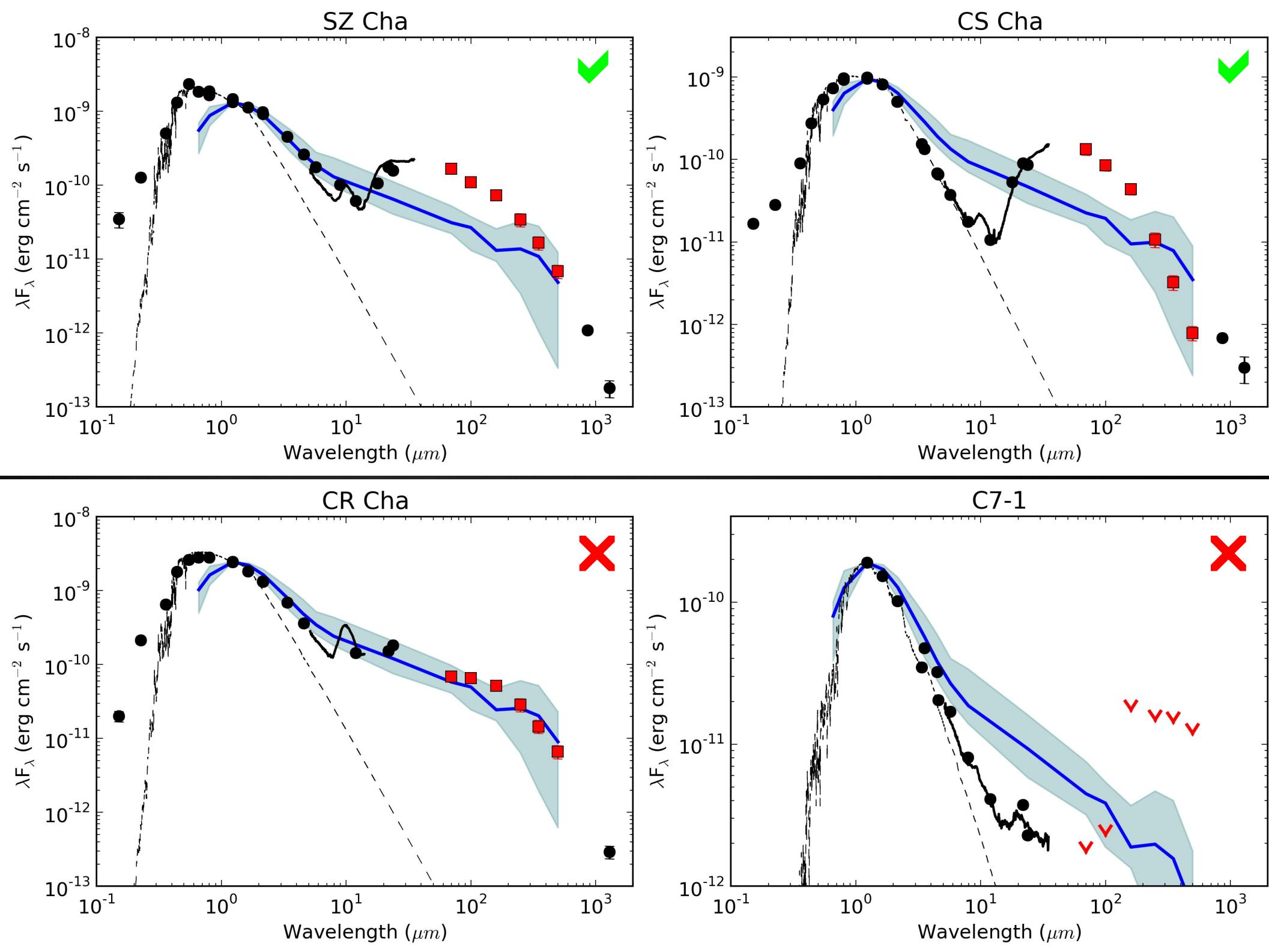
HERSCHEL:
41 CLASS II DISKS
+
9 TRANSITIONAL DISKS

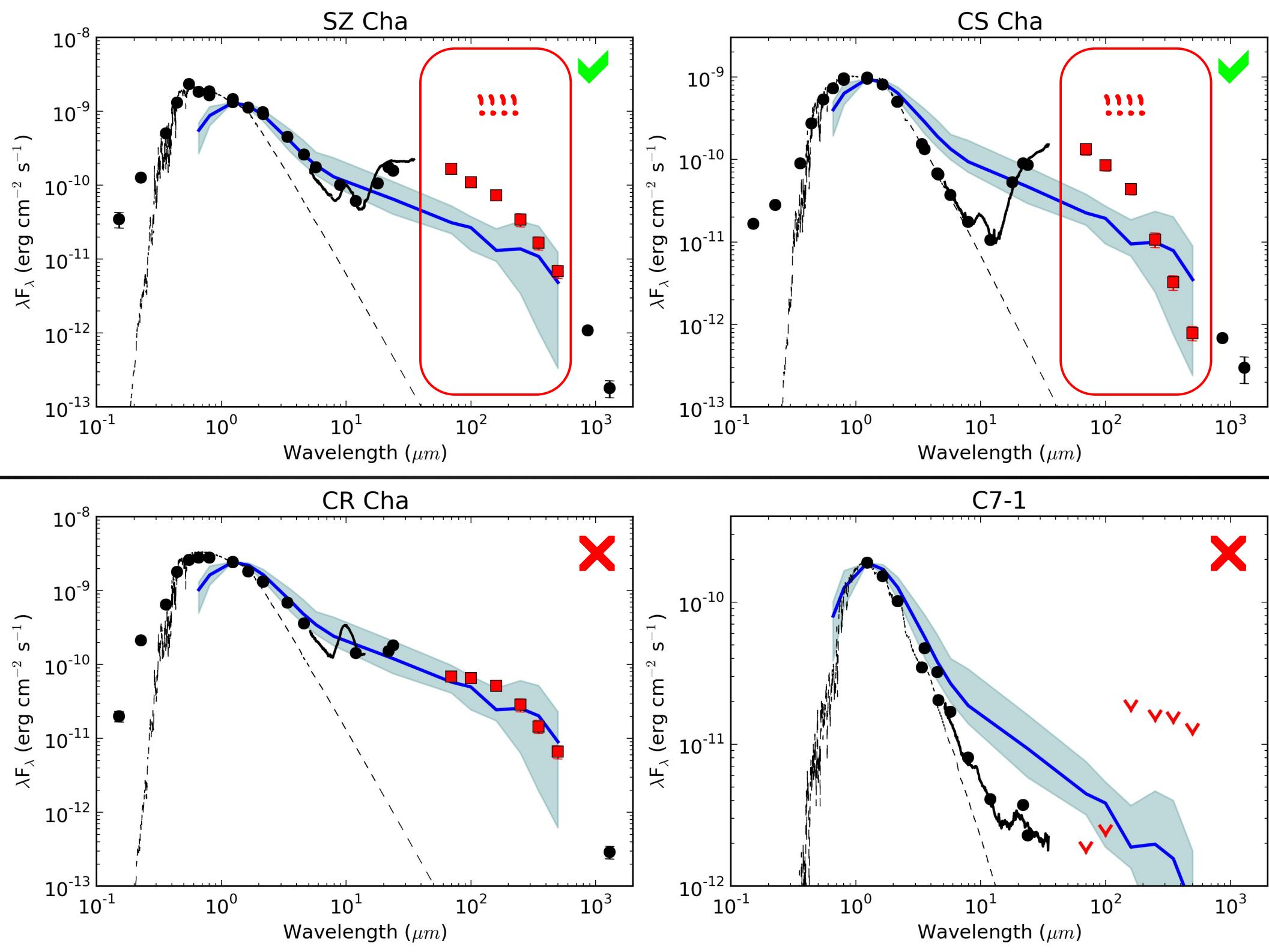
PACS 70 MICRONS
PACS 160 MICRONS
SPIRE 250 MICRONS











- METHOD FOR IDENTIFICATION OF TRANSITIONAL DISKS BASED ON SLOPE BETWEEN 12 (WISE) AND 70 (PACS) MICRONS

- SIGNIFICANT (~40%) CONTAMINATION LEVEL IN THE SAMPLE OF PREVIOUSLY KNOWN TRANSITIONAL DISKS

- TRANSITIONAL DISKS IN THE SAMPLE HAVE HIGHER PACS FLUXES (70-160 MICRONS) THAN CLASS II DISKS -> DIFFERENT OUTER DISK??

