Debris disks are leftovers of planetary formation
Disk structures => constraints on planet(s)
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• Disk structures => constraints on planet(s)
Warm/hot disks around nearby stars

Absil et al. in prep and Marshall et al. in prep
Debris disks around nearby stars

• Out of the NEAT catalogue (200 targets):
  o 18 debris disk targets with known planets (~10%)
  o 34 debris disk targets with no known planet (~15%)

• Inner disks (around the HZ):
  o Very few is known (1% from Spitzer, 10% from IR interf.)
  o Tiny total mass (10E-9 to 10E-5 Earth mass)

• Outer disks (> 5 AU):
  o More disks known and resolved (~25%, Herschel)
  o Larger mass (~ 1D-3 Earth mass)
Debris disks around nearby stars

• Relevance of an astrometric mission:
  ○ Dynamical interactions between planets and disks: mass is mandatory
  ○ Planet formation (mass in the disk versus mass in the planets)