

What



- Simulations show that accreting planets can be detected
- Aim: detect planetary accretion region in disk around RY Tau (d=135 pc, R_star=0.013 AU, R_disk=100AU)

Why

- Exciting science, planets are fancy!
- Observational confirmation of simulations
- Or putting constraints on their results

Johannes his manhattan2 accelerometers



And then

- Compare results with simple model
- elliptic disk or ring + central point source + companion
- Flux ratio disk(ring):star = 1:1
- Flux ratio star:companion(@5 AU) = 1:100
- R_disk=100AU
- R_ring_in=10AU R_ring_out=100AU
- If companion is present, we expect:
 - Very small effect on MIDI visibility
 < 0.01 (V²)
 - Small deviation from 0 in MIDI phase: ~ 0.6 deg equivalent $\sim \lambda/500$!
 - Smaller effects for ring than for disk











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Yes, Andres!