

BOYERS & LEVINSON 2017

20 APRIL 2020

- Sophisticated online processes (cognitive) are implicated by the human turn-taking system → a psychology of turn taking (not CA)
- Recipients must, in real time, do a moment-by-moment analysis of the unfolding turns (demonstrated w/ CA, e.g. w/ resolution of competing starts on syll-by-syll basis)
- Role of neuroimaging? "online inspection of cognitive processes even where there is no or only slender external behavioral correlate" (p 72)

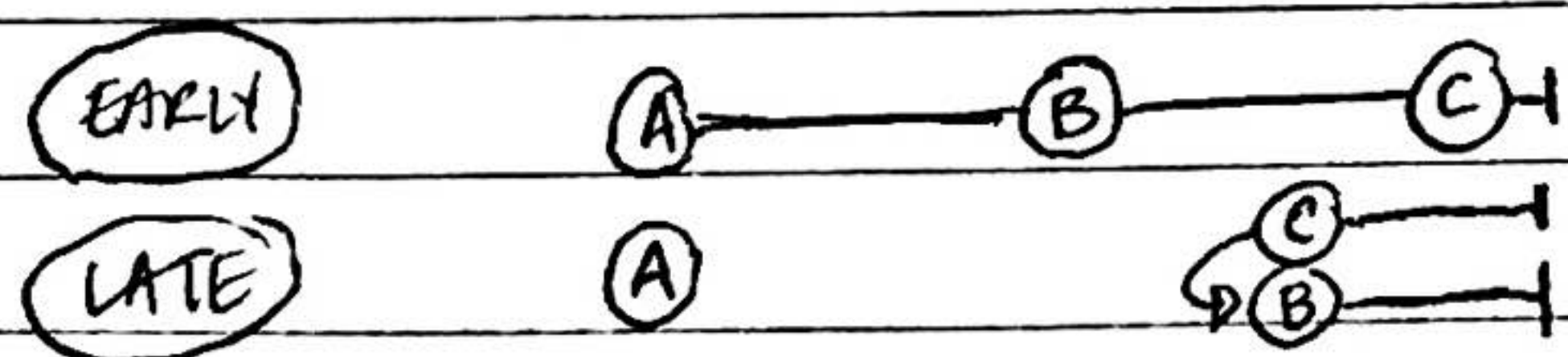
~ CHALLENGES IN PSYCHOLX STUDIES of DIALOGUE ~

- ① Experimental control vs. ecological validity → overbearing paradigms ^{not directly interactive}
- ② Most methods developed don't extend naturally to conversation (except eye-tracking) → controlled "live" interactions _{one-way comm.} ^{not strictly conversational}
- ③ Power (*method) ~ #ptcps, trials, modality restrictions

~ 3 COGNITIVE PROCESSES RELATED TO TURN TAKING ~

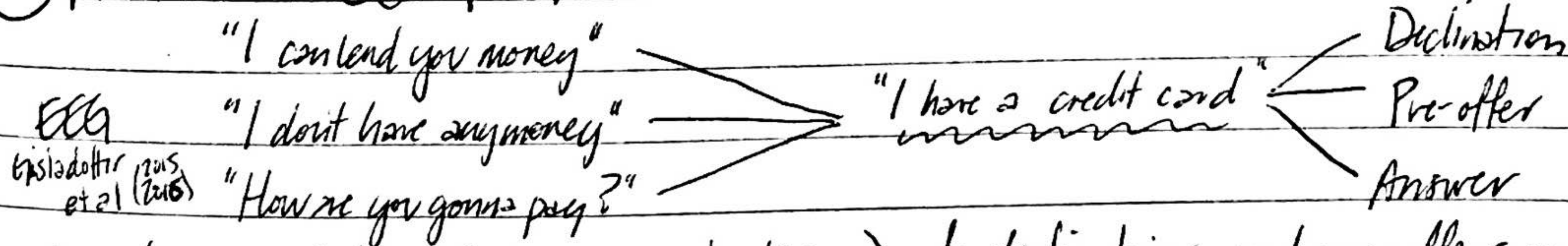
- ACTION RECOGNITION (AScription) = what is being performed by the incoming turn?
- RESPONSE PLANNING = what relevant action to produce next (& its form)?
- TCU IDENTIFICATION = when will the TCU end, and should a response begin there?

TWO
CONTRASTING
MODELS



plan response ASAP & inhibit till needed
postpone planning till TCU-end is imminent

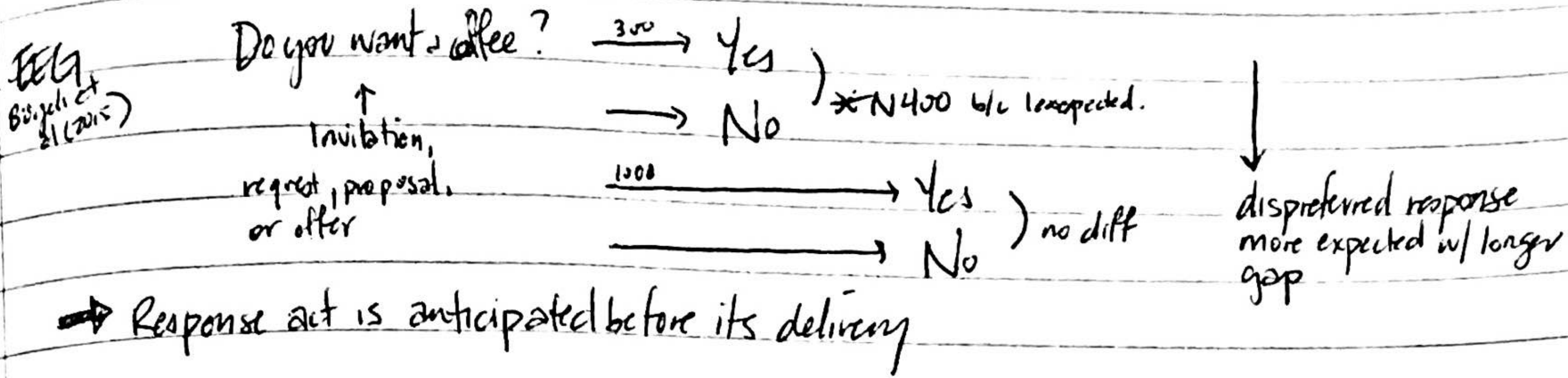
→ (A) ACTION RECOGNITION



- early recognition (~200 ms and ~400 ms) of declinations and pre-offers vs answers
- late processing of pre-offers

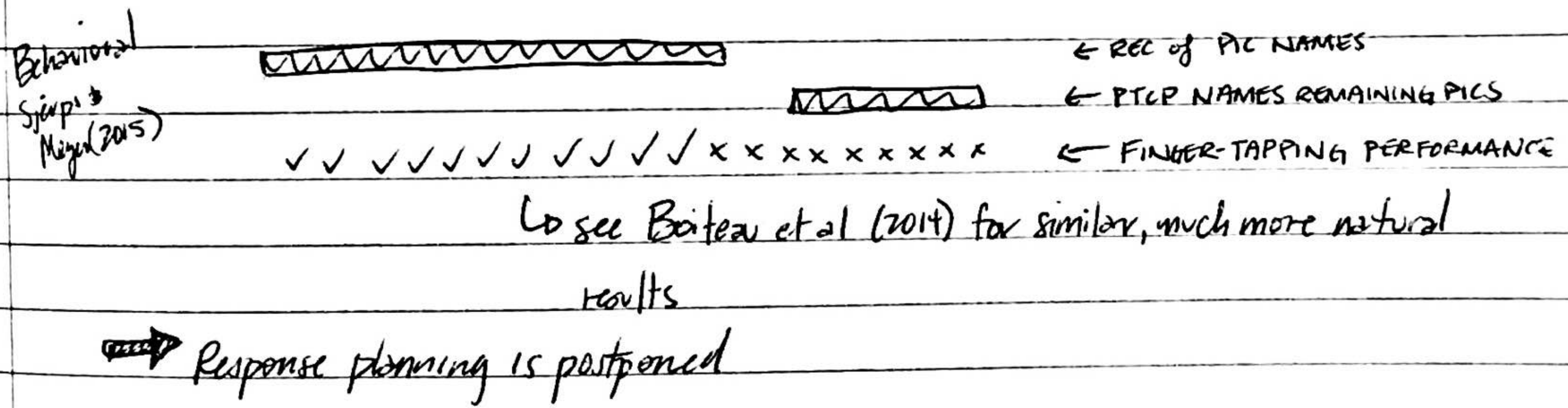
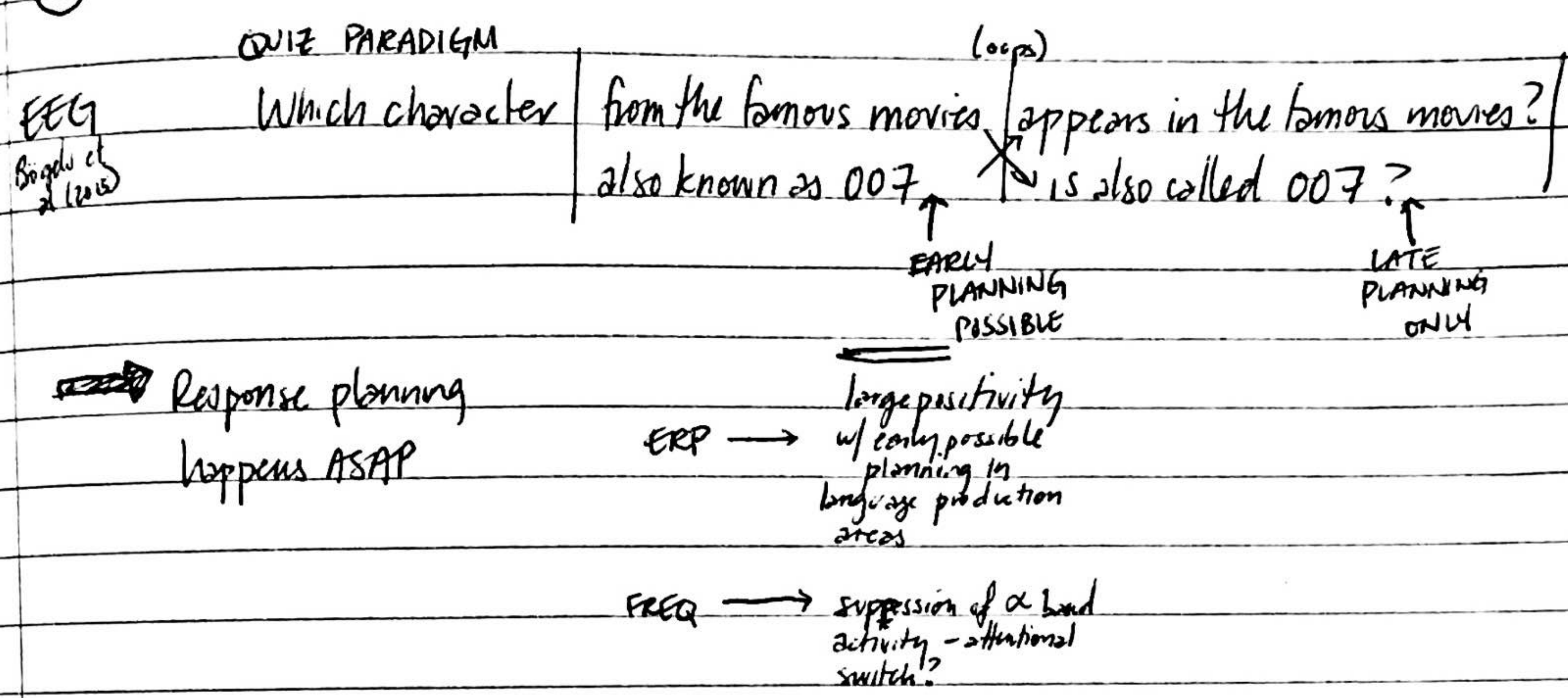
↳ pre-offers are less anticipated and processed for longer

→ ACTION RECOGNITION HAPPENS EARLY BUT SPEED DEPENDS ON SEQUENTIAL POSITION



They relate these findings to other neuroimaging work on direct vs. indirect processing in less conversational/sequential contexts

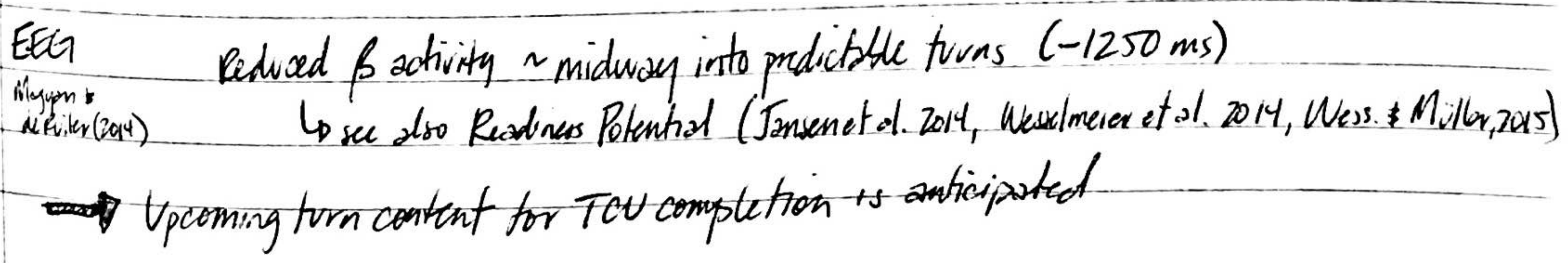
② RESPONSE PLANNING



③ TCU IDENTIFICATION

EARLY model: independent of planning, but must take place

LATE model: initiates, or at least weighed against, planning process for response



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- Rhythmic/oscillatory entrainment to interact w/ counterphasing
- ↳ require conversational hyper-scanning data
 - ↳ proposal: entrainment under conditions of gender/age coordination and/or in diff sequential contexts

⇒ EVIDENCE SO FAR MOSTLY SUPPORTS EARLY PLANNING (BUT NOT FULLY)

~ fragment for cognitive-level description of turn-taking system ~
integrates processes that are otherwise treated modularly (turn-taking, sequence organization, topic design, action description, repair, etc) → how are these practices shaped and realized in their mental realization?

↳ useful for applied theory in non-Neurotypical populations