

Exercises due on: Wednesday June 16, 23:59

## Semantic Theory 2021: Exercise sheet 6

### Exercise 1

Consider the following sentences:

- (1) Either Michael Jordan plays basketball, or he plays baseball.
  - (2) The Bulls do not win every match.
  - (3) If a player goes to a casino, he doesn't come to practice.
- a. Give DRS representations for each of these sentences.
  - b. Determine for each DRS which discourse referents are available for anaphoric reference (i.e., from a subsequent sentence).
  - c. Give the truth-conditions for one of these DRSs. Use the verifying embeddings to arrive at the model-theoretic interpretation.

### Exercise 2

**Note:** This exercise can be done on paper, or using PDRT-SANDBOX, in which case you'll submit a Haskell file (.hs).

**2.1** Formulate the lambda-DRSs for the following lexical items:

- (i) to beat ::  $\langle e, \langle e, t \rangle \rangle$
- (ii) no ::  $\langle \langle e, t \rangle, \langle \langle e, t \rangle, t \rangle \rangle$
- (iii) because ::  $\langle t, \langle t, t \rangle \rangle$

**2.2** Derive the representation of the following sentence using the lambda-DRSs defined above—see the slides for the lambda-DRSs of names, one-place predicates, and pronouns. Show the relevant beta-reduction steps.

- (5) Michael is happy because no player beats him.