## Reflection principles - seminar 4 - Reading list

## Monday 6th February 2012 – 2pm - 4pm

After we have introduced, and determined the strength of, Marshall's reflection principle (which was left over from session 3), we will go on to look at (1) general philosophical problems with reflection principles, and (2) how the reflection principles we have looked at interact with the motivations we looked at in the first session.

Although I will prepare something on (1), it would be good if we can use the last session to discuss any issues which have arisen but not been properly dealt with, or which have not yet come up – in particular, it would be nice to spend some of the time talking through (2). So, please do feel free to bring along any outstanding questions or ideas for discussion!

## 0.1 Reading list

For the Marshall reflection principle, the relevant reference is still:

Marshall, V. 1989. Higher Order Reflection Principles. The Journal of Symbolic Logic, 54(2), pp. 474-489.

My presentation of it will be relatively self-contained (that means I wont go into absolutely all of the details, but can do if prompted).

Otherwise, the readings will be focused on (1) and will be:

Linnebo, O. 2007. Burgess on Plural Logic and Set Theory, Philosophia Mathematica 15(1): Sections 2 and 3 (7 pages) (also see section 1 for a nice recap of Burgess 2004).

Koellner, P., 2003. The search for new axioms. Ph.D. thesis, MIT. Just page 60 section 3.4.2. (1/2 page).

Koellner, P. 2009. On reflection principles, Annals of Pure and Applied Logic, Vol. 157, Nos. 2-3, pp. 206-219. Section 7 (3 1/2 pages).

Maddy, P. 1988. Believing the axioms: 2, The Journal of Symbolic Logic 53(3). pp. 752-754 (3 pages).

As always, the readings are in the dropbox folder.

## 0.2 Location

The seminar will take place from 2-4, in the Fraenkel Room, Corpus Christi College, Oxford.

**Philosophy of Mathematics Seminar** For those wishing to also attend Kobi Kremnitzer (Oxford), "Homotopy Type Theory: a new language for mathematics" at 4.30pm, 10 Merton Street is a 2 minute walk from Corpus Christi.