Richard Garner

Macquarie University

The locally connected classifying topos

The well-known *classifying topos* of a coherent first-order theory $\mathbb{T}$ is the universal Grothendieck topos containing a model of $\mathbb{T}$. In this talk, building on ideas of [1, 2, 3], we describe the locally connected classifying topos, that is, the universal locally connected Grothendieck topos containing a model of $\mathbb{T}$.

REFERENCES:

[1] Börger, R., Coproducts and ultrafilters, *Journal of Pure and Applied Algebra* 46 (1987) 35–47.

[2] Makkai, M., The topos of types, *Lecture Notes in Mathematics* 859 (1981) 157–201.

[3] Reyes, G., & Joyal, A., Forcing and generic models in categorical logic, Preprint (1978).