

LOGIKSEMINARIET STOCKHOLM–UPPSALA

Esfandiar Haghverdi
(Indiana University Bloomington)

A Categorical Model for the Geometry of Interaction
(joint work with Philip Scott, University of Ottawa)

We consider the multiplicative and exponential fragment of linear logic (MELL) and give a Geometry of Interaction (GoI) semantics for it based on unique decomposition categories. We prove a Soundness and Finiteness Theorem for this interpretation. We show that Girard's original approach to $\text{GoI} \sim 1$ via operator algebras is exactly captured in this categorical framework.

Onsdag 23 juni kl. 10.00–11.45,
sal 3513, MIC,
Polacksbacken, Uppsala.

Logikseminariets hemsida:
<http://www.math.su.se/matematik/forskning/logik/>