

Logikseminariet Stockholm–Uppsala

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The uniform lower bound problem in constructive analysis

In a previous seminar (March 2, 2006) we constructed a full and faithful functor M from the category of locally compact metric spaces to the category of formal topologies (representations of locales). Here we show that for a real-valued continuous function f , $M(f)$ factors through the localic positive reals if, and only if, f has a uniform positive lower bound on each ball in the locally compact space. We work within the framework of Bishop constructive mathematics, where the latter notion is strictly stronger than point-wise positivity.

Onsdag 31 januari kl. 10.30–12.15,
sal 11167, Ångströmlaboratoriet, Uppsala.

<http://www.math.su.se/~jesper/seminarier/>