

- ▶ JEAN-YVES GIRARD, *Normativity in logic*.  
Institut de Mathématiques de Luminy, CNRS.  
*E-mail:* girard@iml.univ-mrs.fr.

Incompleteness — the absence of alternative natural numbers — can be ascribed to a ready-made normativity, inducing a rigid departure syntax/semantics. Geometry of Interaction, set in the non-commutative universe of von Neumann algebras, makes normative assumptions explicit, thus rendering possible their internalisation, a possible way out from the semantic *aporia*. As an illustration, we define an alternative “model”: logspace integers.

[1] GIRARD, J.-Y., *Le point aveugle, tome 1 : vers la perfection, tome 2 : vers l'imperfection*, Visions des Sciences, Hermann, Paris, 2006-2007.