Federico Pailos (University of Buenos Aires)

Title: A recovery operator for non-transitive approaches

Abstract: We will present a way to expand non-transitive theories in order to recover gentle versions of Cut and other classically valid meta-rules.We will prove two main results, a negative and a positive one. We will show that $\mathbf{ST}^{+}$, that expands **ST** with a transparent truth predicate, and uses a Strong self-referential procedure, cannot be further expanded with a recovery operator. In order to do that, one need to use a Weak way to achieve self-references, that uses biconditionals, and not identities. We will show that the resulting theory $\mathbf{ST_w}+$ is non-trivial.