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CORRECTION
TO THE PAPER "A NOTION OF MEASURE FOR CLASSES IN AST"

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In the hypotheses of Theorems 5 and 6 of [T] the following essential condition on X, Y was omitted:

"The longest of the two cuts o(X), o(Y) is semiregular".

It is not known whether the "overspill argument" mentioned in the proofs of the theorem works without this condition.

To be specific the argument runs as follows:

Proposition. Let $I < J$ be cuts, such that J be semiregular and let $\varphi(x,y)$ be a set-formula. Then,

$$(*) \quad (\forall a \in I)(\forall b \in J)\varphi(a,b) \rightarrow (\exists a_0 > I)(\exists b_0 > J)(\forall_a \lneqq a_0)(\forall b \lneqq b_0)\varphi(a,b).$$

Proof. Suppose the left hand side of $(*)$ is true and let $a \in I$. Since $(\forall b \in J)\varphi(a,b)$, there is a $c > J$ such that $(\forall b \lneqq c)\varphi(a,c)$. It follows that if we fix some $e > J$ and consider the function

$$F(a) = \max\{c \lneqq e;\ (\forall b \lneqq c)\varphi(a,b)\}$$

then $F''I \subseteq e > J$. By semiregularity of J there is some $b_0 > J$ such that

$$(\forall a \in I)(\forall b \lneqq b_0)\varphi(a,b).$$

By overspill again there is some $a > I$ such that $(\forall a \lneqq a_0)(\forall b \lneqq b_0)\varphi(a,b)$.

In fact we can use a weaker condition than semiregularity. It suffices J not to be Π_I cut.

Reference:

[T] A. TZOUVARAS, A notion of measure for classes in AST, Comment. Math. Univ. Carolinae 28(1987), 449-455.

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