

TheoryMine

CERTIFICATE OF REGISTRY

Ali's Theorem:

Let

$$T_1 = C_a(T_1, \mathbb{N}) \mid C_b(\mathbb{N}, \mathbb{N})$$

$$f_\mu: T_1 \times T_1 \rightarrow T_1$$

$$f_\mu(C_a(x, y), z) = C_b(C_b(C_a(x, x), y), x)$$

$$f_\mu(C_b(x, y), z) = f_\mu(x, z)$$

then

$$f_\mu(f_\mu(x, y), z) = f_\mu(f_\mu(x, z), y)$$

Proof outline: induction on x



THIS THEOREM HAS BEEN NAMED AND RECORDED
IN THE THEORYMINE DATABASE

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