

TheoryMine

CERTIFICATE OF REGISTRY

Broucher's Seconf Theorem

Let

$$T_2 = C_d(T_2, \text{Bool}) | C_c(\mathbb{N}, \mathbb{N})$$

$$T_9 = C_r(\mathbb{N}) | C_q(T_9, \mathbb{N})$$

$$f_{\zeta\psi} : T_2 \times T_9 \rightarrow T_2$$

$$f_{\zeta\psi}(C_c(x, y), z) = C_c(x, x)$$

$$f_{\zeta\psi}(C_d(x, y), z) = C_d(f_{\zeta\psi}(x, z), y)$$

then

$$f_{\zeta\psi}(f_{\zeta\psi}(f_{\zeta\psi}(x, y), z), y) = f_{\zeta\psi}(x, z)$$

Proof outline: induction and rippling



THIS THEOREM HAS BEEN NAMED AND RECORDED
IN THE THEORYMINE DATABASE

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