

**Constancio Hernández**

*Condensations of Tychonoff universal topological algebras*

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**Abstract:** Let  $(L, \mathcal{T})$  be a Tychonoff (regular) paratopological group or algebra over a field or ring  $K$  or a topological semigroup. If  $nw(L, \mathcal{T}) \leq \tau$  and  $nw(K) \leq \tau$ , then there exists a Tychonoff (regular) topology  $\mathcal{T}^* \subseteq \mathcal{T}$  such that  $w(L, \mathcal{T}^*) \leq \tau$  and  $(L, \mathcal{T}^*)$  is a paratopological group, algebra over  $K$  or a topological semigroup respectively.

**Keywords:** universal algebra, paratopological group, topological group

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