

**Maia Starobinsky**

Instituto de Ciencias Básicas, Universidad Nacional de San Juan y Facultad de Ciencias Económicas,  
Universidad de Buenos Aires, Argentina  
maiastaro@gmail.com

A pseudocomplemented distributive lattice (also known as a distributive  $p$ -algebra) is an algebraic structure denoted as  $\langle A, \wedge, \vee, *, 0, 1 \rangle$ , where the underlying structure  $\langle A, \wedge, \vee, 0, 1 \rangle$  is a bounded distributive lattice, and the unary operation  $*$  represents a pseudocomplement operation [1]. This operation satisfies the property that  $x \wedge y = 0$  if and only if  $x \leq y^*$ .

In this paper, our motivation stems from the definition of tense operators on distributive lattices proposed by Chajda and Paseka in [2]. We introduce and explore the variety of tense pseudocomplemented distributive lattices. Specifically, we establish a categorical equivalence of these structures with a full subcategory of tense KAN-algebras.

*Trabajo en conjunto con Gustavo Pelaitay (Instituto de Ciencias Básicas, Universidad Nacional de San Juan y CONICET).*

### **Referencias**

- [1] Balbes, R., Dwinger P., Distributive Lattices. University of Missouri Press (1974)
- [2] I.Chajda, J.Paseka: Algebraic Approach to Tense Operators, Research and Exposition in Mathematics Vol. 35, Heldermann Verlag (Germany), 2015, ISBN 978-3-88538-235-5.