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Symmetry and Conservation for Poset Representations

We study representations of doubly infinite posets based on certain vertex sets of the form $\mathbb{Z} \times F$ where F is finite. Symmetries of the poset like translation, reflection and rotation give rise to categorical properties and to distinguished classes of objects. In settings where the representation theory is understood, we study (generalized) rank modules and the rank decomposition as introduced by Botnan, Oppermann and Oudot.