Categorical properties of the algorithm of differentiation DIII.

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Abstract

The main tools of classification in the Poset Representation Theory are the algorithms of differentiation which basically are additive functors $D : \text{rep } \mathcal{P} \to \text{rep } \mathcal{P}'$ between the category of representations of a given poset $\mathcal{P}$ and the corresponding category of representations of the derived one. In 1991 Zavadskij [11] introduced the algorithms of differentiation for posets with an involution, which were used by him and Bondarenko [1] to classify posets with an involution of tame and finite growth representation type.
In this talk, we present categorical properties of the algorithm of differentiation DIII.

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