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TITLE: Representations and Corepresentations of p-equipped posets.

ABSTRACT: (Joint work with Ivon Dorado) Let p be a prime number and

(P,\leq) a partially ordered set (poset), we say that this poset is p-equipped

if a number l between 1 and p is assigned to each relation x\leq y in P and then we put x\leq ^{l} y, such that:

x\leq ^{l}y\leq ^{m}z and x\leq ^{n}z imply n\geq min[l+m-1,p].

In this work we introduce the notions of representations and corepresentations of (P,\leq). The corresponding categories of representations and corepresentations are equivalent (respectively) to the category of socle-projective modules of an algebra A and the socle-projective modules of an algebra B. We prove that there exists an isomorphism of valued quivers between the Auslander-Reiten components of the corresponding simple projective modules which can not be realized by a functor.