Snake Graphs Associated to Kronecker Modules and Energy of Preprojective Trees.

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Abstract

Snake graphs are combinatorial objects arising from the research of cluster algebras, they allowed to Çanakçi , Schiffler et al to compute the Laurent expansions of the cluster variables in cluster algebras of surface type [3, 4].

In this talk, Kronecker snake graphs are introduced as invariants of non-regular indecomposable Kronecker modules, in particular, by using this kind of snake graphs we introduce some suitable partition trees called preprojective trees whose are associated to a preprojective solution of a matrix problem like Kronecker problem and four subspace problem [5, 6] and we establish extremal values of the energy of them in the sense of [1, 2].

References

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