

1167-19-259

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Representations of Continuous Quivers of Type A.

We generalize type A quivers to continuous type A quivers and prove basic results about pointwise finite dimensional representations. We prove analogue of the Bar Code theorem to continuous quivers of type A with alternating orientation.

Starting with this, we define a generalization of the continuous cluster categories. These categories have several new features: continuous clusters and continuous mutations, unlike the original continuous cluster categories. (Received March 08, 2021)