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Homology of Picture Groups

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To each Dynkin quiver, using domains of semi-invariants, we associate "spherical semi-invariant picture" L(Q). To such a picture L(Q) we associate the "picture group" G(Q). In order to compute the homology of the picture group G(Q), we construct the picture space X(Q) and show that X(Q) has only first homotopy group non-trivial, and that group is actually isomorphic to G(Q), i.e. X(Q) is a K(π,1) for G(Q). Using this, we can compute homology of the picture group G(Q) by computing homology of the picture space X(Q). For the quiver of type An, we show that the homology groups are free abelian groups of ranks given by ballot numbers. Some results for the quivers of type D will be stated.