A New Realization for Calculating the Limit Point of the Pentagram Map

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Abstract

The pentagram map is a discrete integrable system. We will discuss the pentagram map, generically defined coordinates, and other details before we discuss our main result. The main result is the construction of an operator associated to a polygon that is invariant under the pentagram map and the demonstration that this coincides with an operator introduced by Glick in [1]. This gives a new realization of how one can calculate the limit point of the pentagram map.

References