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case of Toda Map

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of the 3 dimensional Lotka-Volterra map can be derived, iteratively, from the singularity confinement (SC). The method developed there can be applied to any integrable maps of dimension \$d\$ only when the number of the invariants \$p\$ equals to \$d-1\$. We propose, in this note, a new algorithm of the derivation which can be used in the cases \${d\over 2}\le p\le d-2\$. Applying this algorithm to the 3 point Toda map, we derive a series of its IVPP's.

In our previous work we have shown that the invariant varieties of periodic points (IVPP) of all periods

Derivation of Invariant Varieties of Periodic

Points from Singularity Confinement in the

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