

On semigroups of transformations under deformed multiplication

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Abstract: Given a semigroup S and an element a of S , one always obtain a new semigroup S^a under a new operation $*$ defined by $x * y = xay$ for all $x, y \in S$ (here the product xay is the original semigroup operation of S). In this talk, we present results concerning algebraic and combinatorial properties of the semigroup S^a for the cases where S is one of finite full, partial and partial one-one transformation semigroups.

Keywords: Full, partial, partial one-one, transformation, idempotent, variant semigroup, deformed multiplication

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