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A generalization of semiflows on monomials. (English) Zbl 1249.37001
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Summary: Let K be a field, $A = K[X_1, \dots, X_n]$ and \mathbb{M} the set of monomials of A . It is well known that the set of monomial ideals of A is in a bijective correspondence with the set of all subsemiflows of the \mathbb{M} -semiflow \mathbb{M} . We generalize this to the case of term ideals of $A = R[X_1, \dots, X_n]$, where R is a commutative Noetherian ring. A term ideal of A is an ideal of A generated by a family of terms $cX_1^{\mu_1} \dots X_n^{\mu_n}$, where $c \in R$ and μ_1, \dots, μ_n are integers ≥ 0 .

MSC:

- 37B05** Dynamical systems involving transformations and group actions with special properties (minimality, distality, proximality, expansivity, etc.)
- 13A15** Ideals and multiplicative ideal theory in commutative rings
- 54H20** Topological dynamics (MSC2010)

Keywords:

monomial ideal; term ideal; Dickson's lemma; semiflow

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