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The Representation of Semi-Hereditary Bezout Semigroups

A Bezout semigroup S is called "semi-hereditary" if for each $a \in S$ there is an idempotent in S that generates the annihilator of a. Our main result states that a semigroup is a semi-hereditary Bezout semigroup if and only if it is isomorphic to a "semigroup of divisibility", i.e., the semigroup of principal ideals in a semi-hereditary Bezout ring partially ordered by reverse inclusion. This is joint work with Pham Ngoc Anh of the Hungarian Academy of Sciences.