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88001. *The Group of Divisibility of a Finite Intersection of Valuation Rings.*

The group of divisibility of an integral domain is the multiplicative group of nonzero principal fractional ideals of the domain. The goal of this presentation is to describe the lattice-ordered groups ( $\ell$ -groups) that occur as a group of divisibility of an intersection of finitely many valuation overrings of the domain  $D = k[x_1, x_2, \dots, x_n]$ , where  $k$  is a field and  $x_1, x_2, \dots, x_n$  are indeterminates for  $k$ . (Received September 07, 2014)