1158-20-16Alfred Geroldinger\* (alfred.geroldinger@uni-graz.at), Institute for Mathematics and<br/>Scientific Comp, University of Graz, Heinrichstrasse 36, 8010 Graz, Austria. On strongly primary<br/>monoids and domains.

A (commutative and cancellative) monoid H is strongly primary if for each non-invertible element  $a \in H$  there is  $n \in \mathbb{N}$  such that  $\mathfrak{m}^n \subset aH$ , where  $\mathfrak{m}$  is the nonempty set of non-invertible elements of H. Numerical monoids are strongly primary and the same is true for large classes of Puiseux monoids (Puiseux monoids are additive submonoids of the nonnegative rational numbers). Furthermore, the multiplicative monoid of nonzero elements of a one-dimensional local noetherian domain is strongly primary.

We provide a survey on strongly primary monoids and their arithmetic (including their sets of lengths, sets of distances, and catenary degrees). New results stem from joint papers with Felix Gotti, Moshe Roitman, and Salvatore Tringali. (Received February 01, 2020)