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Scott T Chapman (schapman@trinity.edu), Trinity University, Department of Mathematics, 715 Stadium drive, San Antonio, TX 78212-7200, **Juan I Garcia-Garcia** (jigg@ugr.es), Departamento de Algebra, Universidad de Granada, E-18071 Granada, Spain, **Pedro A Garcia-Sanchez*** (pedro@ugr.es), Departamento de Algebra, Universidad de Granada, E-18071 Granada, Spain, and **Jose C Rosales** (jrosales@ugr.es), Departamento de Algebra, Universidad de Granada, E-18071 Granada, Spain. *Elasticity and length functions on atomic monoids.*

In this talk we focus our attention in computing some parameters measuring the number of factorizations of the elements of a finitely generated commutative atomic monoid. Along this line we will show how to compute the elasticity, the asymptotic values of some length functions and the behavior of the number of factorizations of the powers of a given element in this kind of monoids. (Received September 28, 2000)