

1086-11-2749      **Keenan Monks\*** (monks@college.harvard.edu), 293 Dunster Mail Center, Cambridge, MA  
02138-7544, and **Sarah Peluse** and **Lynnelle Ye**. *Strings of Special Primes in Arithmetic  
Progressions*.

The Green-Tao Theorem, one of the most celebrated theorems in modern number theory, states that there exist arbitrarily long arithmetic progressions of prime numbers. In a related but different direction, a recent theorem of Shiu proves that there exist arbitrarily long strings of consecutive primes that lie in any arithmetic progression that contains infinitely many primes. This presentation covers a research paper that, using the techniques of Shiu and Maier, generalizes Shiu's Theorem to certain subsets of the primes such as primes of the form  $\lfloor \pi n \rfloor$  and some of arithmetic density zero such as primes of the form  $\lfloor n \log \log n \rfloor$ . (Received September 25, 2012)