Philadelphia Area Number Theory Seminar

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On an additive function

Abstract: K. Alladi and P. Erdős studied the arithmetic function

$$A(n) = \sideset{}{^\times}\sum_{p^k \| n} \alpha p,$$

where $n = \prod_{p^k \| n} p$ is the product of powers of distinct primes, and proved that the average order of $A(n)$ is a constant times $n/\log n$, where the constant is given by a rational multiple of $\zeta(2)$.

In this talk, I will give a new approach to this result and prove the function field analogue of the above result.

Wednesday, April 15, 2015
2:40–4:00PM

Bryn Mawr College
Department of Mathematics
Park Science Center **328**
Tea and refreshments at 2:20PM in Park 355