

Cal Poly Department of Mathematics

Puzzle of the Week

Nov 21 - Dec 2, 2013

What happens to the sum

$$\frac{1}{1^2 + 2013n^2} + \frac{2}{2^2 + 2013n^2} + \frac{3}{3^2 + 2013n^2} + \cdots + \frac{n}{n^2 + 2013n^2}$$

as $n \rightarrow \infty$?

Solutions should be submitted to Morgan Sherman:

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before ~~next Thursday~~ December 2nd. Those with correct and complete solutions will have their names listed on the puzzle's web site (see below) as well as in next week's email announcement. Anybody is welcome to make a submission.

<http://www.calpoly.edu/~sherman1/puzzleoftheweek>