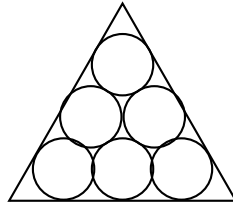


Cal Poly Department of Mathematics

Puzzle of the Week

April 30-May 6, 2010

Circles of equal radii are packed into an equilateral triangle with unit area in such a way that n circles are adjacent along the bottom edge, $n - 1$ directly above them, $n - 2$ above those, etc. (see picture, with $n = 3$). If A_n is the sum of the areas of the circles find $\lim_{n \rightarrow \infty} A_n$.



Solutions should be submitted to Morgan Sherman:

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Email: sherman1 -AT- calpoly.edu
Office: bldg 25 room 310*

before next Friday. Those with correct and complete solutions will have their names listed in next week's email announcement. Anybody is welcome to make a submission.