

# Cal Poly Department of Mathematics

## Puzzle of the Week

January 29 - Feb 4, 2010

This is a follow up to last week's puzzle:

A pasta dish contains  $n$  strands of spaghetti. A diner randomly picks two ends of strands (possibly of the same strand) and glues them together (with edible paste). She then repeats doing this until there are no more free ends to glue together. What is the expected number of single strand loops she will end up with?

*Solutions should be submitted to Morgan Sherman:*

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*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.*