

# Cal Poly Department of Mathematics

## Puzzle of the Week

May 7-13, 2010

Calculate:

$$\prod_{n=2}^{\infty} \left(1 - \frac{1}{n^2}\right)$$

*Solutions should be submitted to Morgan Sherman:*

*Dept. of Mathematics, Cal Poly*

*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.*