

PITTSBURG STATE UNIVERSITY  
DEPARTMENT OF MATHEMATICS

Colloquium

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Department of Mathematics, PSU

**There is this problem.....**

Abstract

Partition a rectangle  $P$  in finitely many baby rectangles  $P_1, P_2, \dots, P_n$ .

So that each  $P_i$  is parallel to a side of  $P$ .

Show:

If each baby rectangle  $P_i$  has an integral side then  $P$  has an integral side.

Three (out of at least 16 existing) solutions will be presented.

This is a piece of beautiful elementary mathematics.

Thursday, September 13, 2001

2:00 p.m.  
Yates 215

Students are encouraged to attend.  
There will be cookies and conversation afterwards in Yates 210