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Title of Talk: Solving the Diophantine Equation

Abstract:
Given an integer n, we may derive the solutions of the Diophantine equation $\frac{1}{x} + \frac{1}{y} = \frac{1}{n}$ by simply examining the divisors of n^{2}. We will also discuss methods of solving the general Diophantine equation $\sum_{i=1}^{k} \frac{1}{x_{i}} = \frac{1}{n}$ for its nontrivial solutions.