

1135-VV-3152 **M Beck, J Friedman, M Gagliardo, T Hunter, N Sieben, C Williams and S Wright***,
swright8@fitchburgstate.edu. *The Arithmetic and Geometry of (P)s(e)udokus.*

As we set out on this journey, our goal was to develop a counting theory for sudoku puzzles and their relatives. Spoiler alert: this is difficult. While the end of this talk may not wrap up the problem with a nice bow, the layers of pretty paper are still quite nice. This work reminds us that mathematics is not a collection of discrete fields of study; there's something here for everyone and it is all mixed up together. We see the value of the good mathematical habits we aim to instill in our students and the utility of powerful theorems... and ... there are puns. (Received September 26, 2017)