

# SUMS 2026

Shenandoah Undergraduate Mathematics and Statistics  
James Madison University | Saturday, November 7, 2026

## Projective Planes

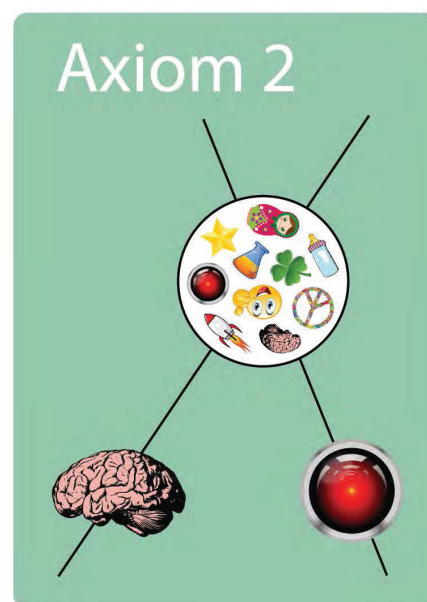
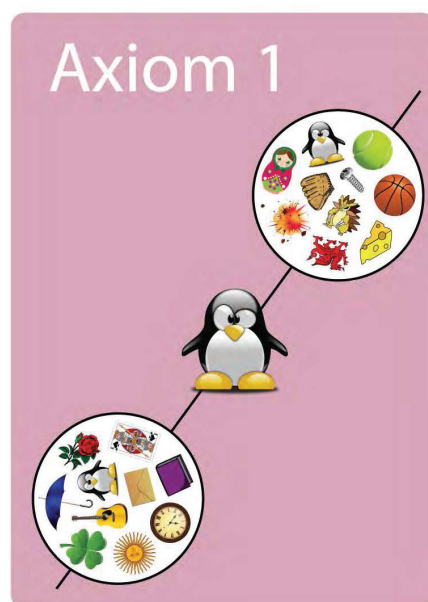
A projective plane is a system of points and lines which obeys the following two axioms:

**Axiom 1:** Any two points are joined by exactly one line.

**Axiom 2:** Any two lines meet in exactly one point.



Eric Moorhouse  
University of Wyoming



From these two simple axioms there emerges an extremely rich theory with many surprising features and open questions.

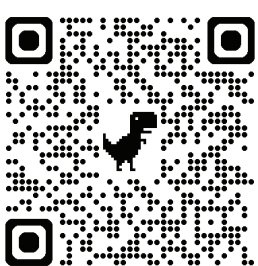
## Expect the Unexpected: Pioneers who Promoted Women in Math and Science

How did a department store magnate and a playwright advance American mathematics and science—and women in these male dominated fields in particular?



Della Dumbaugh  
University of Richmond

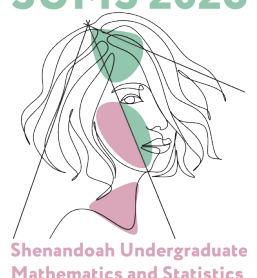
This talk will explore the lives of Caroline Bamberger Fuld and Clare Booth Luce as we examine the surprising range of personalities that influenced the development of mathematics and science in America in the twentieth century.



Early registration and  
student submission  
deadline **October 24**

For more information visit us at:  
[www.jmu.edu/mathstat/sums](http://www.jmu.edu/mathstat/sums)  
or email us at [sums@jmu.edu](mailto:sums@jmu.edu)

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