

DEPARTMENT OF MATHEMATICS  
2016 SPRING SEMINAR

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**“Generalized quadrangles and their well-covered dimension”**

**Abstract:**

Generalized quadrangles are fairly regular incidence structures that have been thoroughly studied since J. Tits introduced them in 1959. The biggest research group focusing on GQs is in Ghent, Belgium; their work on GQs may be the only good thing coming out of that place ever.

To each GQ we will associate their adjacency graph and then we will study a parameter, called the well-covered dimension, of it. This parameter is not well-understood and so this project (studying the adjacency graph of GQs) is a step towards gathering information that could be useful at the time of getting an all-encompassing theory about the well-covered dimension of a graph.

In recent years, most results about the well-covered dimension of different families of graphs have been obtained at Fresno State; work partly done by either Fresno State students or participants of the Fresno State Summer REU. Hence, this talk is not just suitable for students at all levels, but students who may be interested in doing a research project in the future are highly encouraged to attend.

**Friday, January 29, 2016**  
**PB 138**  
**12:00PM – 1:00PM**