

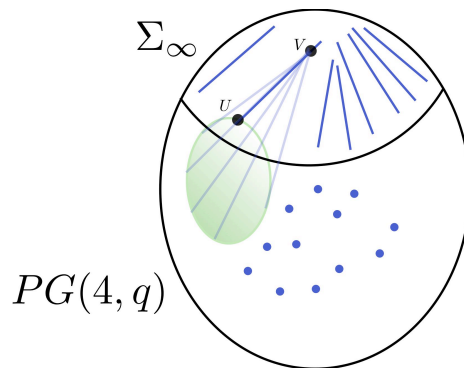


Mathematics Lecture Series, Spring 2014
Fresno State

DR. ROLANDO POMAREDA
Universidad de Chile

“Unitals in projective planes”

Friday, May 2nd, 2014 @ 4:00 PM in S2 307



One of the most important subjects in finite geometry is the study of finite projective planes. One of the ways to do this is to study interesting structures that live on the plane to be studied. One of these structures is a unital. Unitals are found only in certain projective planes, and are one of the extremal objects with the property of intersecting all lines of the plane. The expectation is that a characterization of unitals will necessarily carry important information about the planes that host them.

We will start by introducing what projective planes and unitals are. We will then explore a classification of unitals by considering the set of lines, through a point exterior to the unital, that are tangent to the unital.

If you need a disability-related accommodation or wheelchair access information, please contact Carmen Caprau at (559) 278-4997 or e-mail ccaprau@csufresno.edu. Requests should be made at least one week in advance of the event.