1135-VO-2094 **Oscar Vega*** (ovega@csufresno.edu). Unitals in Figueroa planes. Preliminary report. Most of what is known about unitals is on these that can be embedded in $BC(2, a^2)$. However, unitals may be for

Most of what is known about unitals is on those that can be embedded in $PG(2, q^2)$. However, unitals may be found in a wide variety of finite projective planes. Lately, quite a few results have appeared discussing the geometry of unitals embedded in 'unusual' planes, like the Figueroa plane of order q^6 , \mathcal{F}_{q^6} , which is not even a translation plane.

Although it was known since 1998 (de Resmini and Hamilton) that \mathcal{F}_{q^6} admitted the so-called Figueroa unital, it was not until 2012 that Hui and Wong were able to prove that this unital is not classical. No other unitals are known to exist in \mathcal{F}_{q^6} .

In this presentation we will explore the existence of unitals in \mathcal{F}_{q^6} that are not the Figueroa unital. (Received September 25, 2017)