1056-51-1119 **Oscar E Vega*** (ovega@csufresno.edu), 5245 North Backer Avenue M/S PB 108, Fresno, CA 93740, and **Esteban M Diaz**. *Translation planes admitting a linear Abelian group of order $(q+1)^2$.*

Under the conditions of q being an odd prime power and q^2-1 having a p-primitive divisor, we have shown that translation planes of order q^2 with kernel containing $GF(q)$ that admit a linear Abelian group of order $(q+1)^2$ containing at most three kernel homologies must be associated to a flock of a quadratic cone. (Received September 21, 2009)