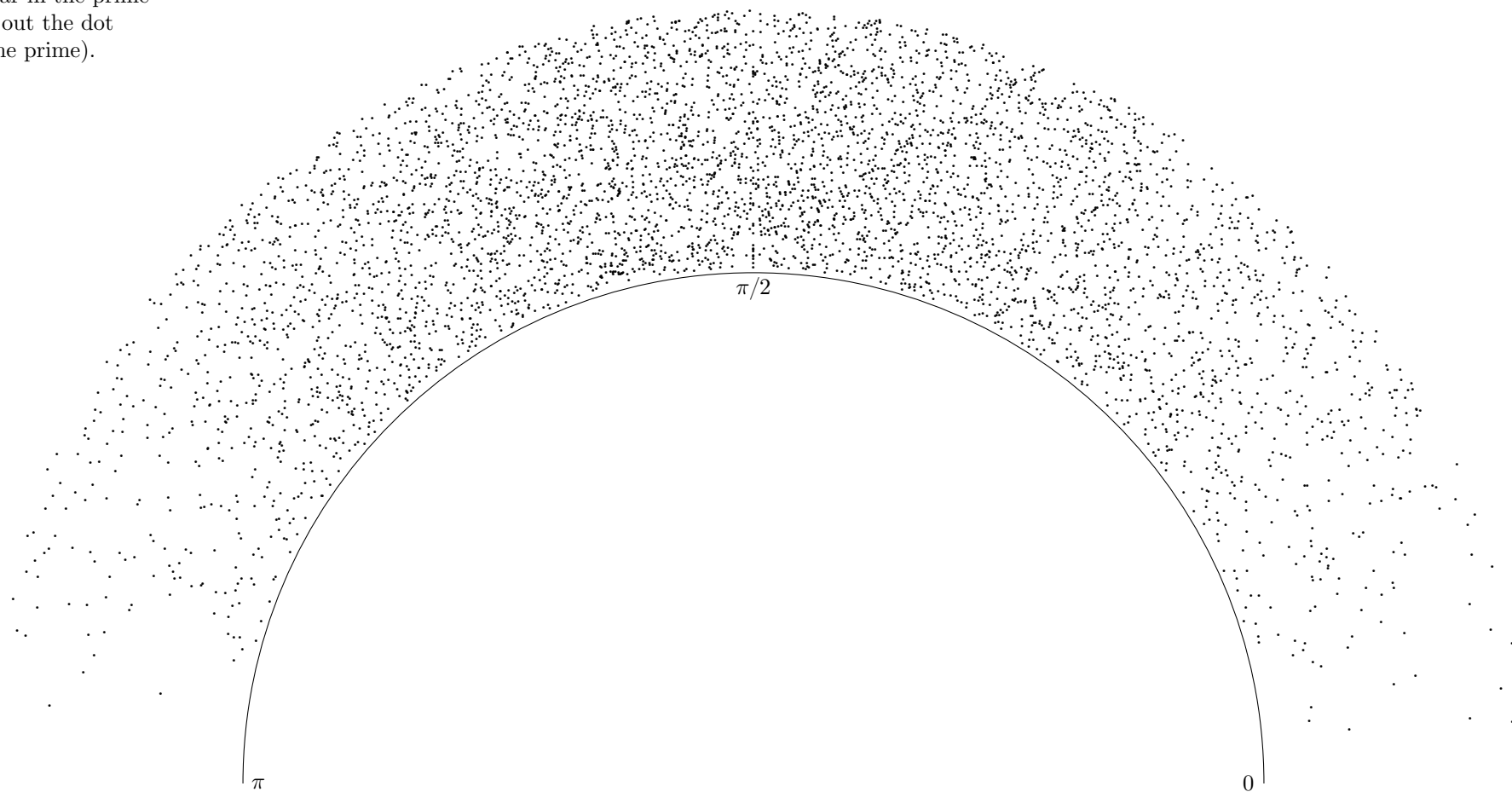


## EXAMPLES OF THE SATO-TATE CONJECTURE

$$y^2 + y = x^3 + x^2 + 3x + 5$$

Plot of  $\theta_p$  for first 5000 primes.  
No complex multiplication.  
Norm is linear in the prime –  
(the further out the dot  
the bigger the prime).



$$y^2 = x^3 + 1$$

Plot of  $\theta_p$  for first 5000 primes.  
Complex multiplication by Eisenstein integers!  
Norm is linear in the prime –  
(the further out the dot  
the bigger the prime).

