



Tanner graph for Ping (with  $t=4$ ,  $k=30,000$ , and  $n=90,000$ )

Apple v. Caltech  
 IPR2017-00728  
 Apple 1248

Apple Ex. 1048 (IPR2017-00210);  
 Apple Ex. 1248 (IPR2017-00219);  
 Apple Ex. 1031 (IPR2017-00297);  
 Apple Ex. 1048 (IPR2017-00700);  
 Apple Ex. 1148 (IPR2017-00701);  
 Apple Ex. 1248 (IPR2017-00728)