

PCr) dr = ( 
$$\Rightarrow \alpha = 1$$
  
=1 (  $\because$  uniform dist)  
PCr) = 2r  
PDF q(r) = 2r q(r) =  $p(g'(r)) \cdot \frac{d}{dr} g^{-1}(r)$   
 $2r = \frac{d}{dr} g^{-1}(r)$ 

We randomly pick radial coordinate, and transform 9+ using g(·) to get uniform distribution.