## The Integrand in 3 Dimensions:

$$ln[1]:= x[k_, 1_] := k * 1$$

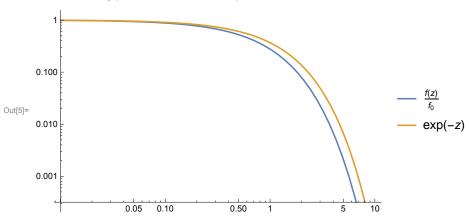
$$\ln[2] = R_{x_{-}}[\theta_{-}] := \left( \left( 1.334 * E^{(-x/\cos[\theta])} * \cos[\theta] \right) / \left( 1-1.334^{2} * \left( \sin[\theta] \right)^{2} \right)^{1/2} \right)$$

$$In[3]:= f[z_] := NIntegrate [2 * Pi * Sin[\theta] * R_z[\theta], {\theta, 0, ArcSin[1/1.334]}] / (2 * Pi)$$

$$ln[4]:= f_0 = f[0]$$

Out[4]= **0.749625** 

 $\label{eq:logLogPlot} $$ \log \log \Pr\left(\left\{f[z] \middle/ f_{\emptyset}, \exp[-z]\right\}, \{z, \emptyset.01, 10\}, \Pr\left(\frac{1}{2}\right)\right\} $$ is the problem of the problem of$ 



Difference in normalized case:

$$ln[12]:= dev[z_] := (f[z]/f_0)/Exp[-z]$$

In[13]:= dev[2.3]

Out[13]= **0.542567** 

In[14]:= **dev[4.6]** 

Out[14]= **0.337781** 

Difference when not normalized:

$$ln[15]:= dev[z] := (f[z]) / Exp[-z]$$

In[16]:= dev[2.3]

Out[16]= 0.406722

In[17]:= dev[4.6]

Out[17]= **0.253209**