



 $\frac{2}{2\phi'} \stackrel{\approx}{\underset{m=-\infty}{\stackrel{\sim}{=}}} e^{im(\phi-\phi')} = im \# e^{im(\phi-\phi')}$ $\frac{\partial^{2}}{\partial \phi^{12}} \sum_{m=-\infty}^{\infty} e^{im(\phi-\phi')} = (im \phi)^{2} e^{im(\phi-\phi')}$ $\left(\frac{1}{p'}\frac{\partial}{\partial p'},\frac{p'}{\partial p'},-\frac{m^2}{p'^2}\right)g_m(p_ip')\sum_{m=-\infty}^{\infty}e^{im(\phi-\phi')}=-\frac{2\delta(p-p')}{p}\sum_{m=-\infty}^{\infty}e^{im(p-\phi')}$ $\left(\frac{1}{\rho'}\frac{\partial}{\partial \rho'}\rho'\frac{\partial}{\partial \rho'}-\frac{m^2}{\rho'^2}\right)g_m(\rho,\rho')=-2\delta(\rho-\rho')$ b) Dirichlet conditions = G(p,p', p,p') ranisher at surface So at f=a and b, G=0 $G(\alpha, \rho', \phi, \phi') = 0 = G(b, \rho', \phi, \phi')$ ()