We stow that solutions to the Dirac equation

Satisfy lk Klein-Gordon equation.

It Collows from the Dirac equation that

$$-m^{2})\Psi = (-\frac{1}{2} 2.20 (34^{n}, 8^{o}) + [8^{n}, 8^{o}]) - m^{2})\Psi.$$

22 [FM, 80] = O since dudo is symmetric and the commetatris and isymptose

$$(-h^{MN}\partial_{M}\partial_{N}-m^{2})\Psi=(-\partial_{M}\partial^{M}-m^{2})\Psi=0,$$

which we recognize as the Klein-Gordon equation.