$$ds^{2}_{DS} = -\left(1 - \frac{r^{2}}{a^{2}}\right)dt^{2} + \left(1 - \frac{r^{2}}{a^{2}}\right)^{-\frac{1}{2}}dr^{2} + r^{2}\left(d\theta^{2} + \sin^{2}\theta\right)dt^{2}$$

$$u = 0 \qquad F(n) \Rightarrow dn = 0 \qquad t \qquad f(n) dl + e \qquad f(n) dn$$

$$v = 0 \qquad F(n) \Rightarrow dn = 0 \qquad t \qquad f(n) dn$$

$$dw dv = f(n) dt^{2} \qquad (F(n))^{2} dr^{2}$$

$$+(n)=(+\frac{a-r}{r+a})^{\frac{1}{2}}$$

$$u = e^{-t/a} F(r) \Rightarrow \Rightarrow du = \frac{1}{a} e^{-t/a} F(r) dt + e^{-t/a} F(r) dr$$

$$v = e^{-t/a} F(r) \Rightarrow du = -\frac{1}{a} e^{-t/a} F(r) dt + e^{-t/a} F(r) dr$$

$$wv = \pm \frac{2}{r}(n)v = \pm \frac{a-r}{r+a-vv}$$
 (61-vv)

When we take the rease for + sign, - ()

$$now uv = + \frac{a-r}{r+a}$$

$$\Rightarrow \frac{nv+1}{nv-1} = \frac{a}{-r}$$

$$\Rightarrow r = \frac{100001 - 200}{1 + 200} a \qquad \qquad \text{if } g_{,uv} = -4a^2$$

when we take the rose for - sign, (73) = (73) = (73) = (73) = (73) = (73) = (73) $\Rightarrow \frac{uv+1}{av+1-uv} = \frac{v}{a}$ approximation $A|_{m=0} = \frac{1}{a}$ $\frac{3.m}{A} = +2$ $\partial_{n}\partial_{v}\left(\frac{1-uv}{1+uv}\right)^{2}=2\partial_{u}\left(\frac{1-uv}{1+uv}\right)\partial_{v}\left(\frac{1-uv}{1+uv}\right)$ $= 2 \partial_{u} \left[\frac{1 - uv}{1 + uv} \cdot \frac{(1 + uv)(-u) - (1 - uv)u}{(1 + uv)^{2}} \right]$ $\frac{1}{2} \frac{1}{4} \frac{1}{2} \frac{1}{4} \frac{1}{2} \frac{1}{4} \frac{1}{2} \frac{1}$ $= 4 \frac{(1+uv)^3(2uv-1v) - (uv-1)u\cdot 3(1+uv)^2 u}{(1+uv)^6}$ when n = 0, - this reduces to 100 - 100 = 1 - 100 - 10 m = 1 - 22 & -col - - - - - 102, " 10 - 100 - 7 408A - 1 · Alusy - Zai ... I was = -2Substituting the value of A_{μ} in the expression of kwe get $k = 32pa^{4}$