$$\Rightarrow g^{\mu\nu} R_{\mu\nu} - \frac{1}{2} g^{\mu\nu} g_{\mu\nu} R = -8\pi g^{\mu\nu} T_{\mu\nu}$$

$$\Rightarrow R - \frac{1}{2} dR = -8\pi T^2$$

$$\Rightarrow \frac{R}{2} = \frac{1}{d-2} 8\pi T^{2}$$

$$\frac{2}{2} = \frac{1}{2} \cdot 8\pi T^{2}$$

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$$\frac{2}{2} \cdot 2\pi T^{2} \cdot 2\pi T^{2}$$

$$(5.5) \quad \dot{\tau}_{n} = -8\pi T_{\mu\nu} + 8\pi \frac{2}{2(-24)} T^{\lambda}_{(3.6)}$$

$$= -8\pi \left(\frac{1}{\sqrt{2}} - \frac{1}{\sqrt{2}} \right)$$

$$(2.8)$$

From (A.2)
$$R_{uv} = \left(\frac{A_{,u}A_{,v}}{A^{2}} - \frac{A_{,uv}}{A} + \frac{d-2}{4} \frac{g_{,u}g_{,v}}{g^{2}} - \frac{d-2}{2} \frac{g_{,uv}}{g}\right)$$

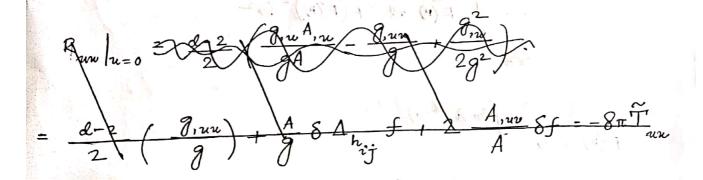
$$+\left(\frac{A_{,\upsilon}^{2}}{A^{2}}-\frac{A_{,\upsilon}A_{,\upsilon}A_{,\upsilon}}{A}-\frac{\mathcal{Q}_{-2}}{2}\frac{\mathcal{Q}_{,\upsilon}A_{,\upsilon}}{\mathcal{Q}A}\right)\mathcal{S}f$$

:,
$$R_{uv}/u=0=-\frac{A_{,uv}}{A}-\frac{d-2}{2}\frac{g_{,uv}}{g}$$

$$R_{mv} = -8\pi T_{muv}$$

$$\Rightarrow -\frac{A_{,uv}}{A} - \frac{d-2}{2} \frac{g_{,uv}}{g} = -8\pi \widetilde{T}_{uv}$$

$$\Rightarrow \frac{A_{,w}}{A} = -\frac{d-2}{2} \frac{g_{,w}}{g} a + 8\pi \widehat{T}_{gw} \qquad (2.11)$$



$$ds^{2} = -\lambda(r) dt^{2} + \bar{\lambda}(r) dr^{2} + r^{2} d\Omega^{2}(d-2)$$

$$\lambda(r) = 1 - \frac{2C}{r^{d-3}} + \frac{E^{2}}{r^{2}(d-3)}$$

$$u = e^{t/\alpha} F(r) \Rightarrow du = \frac{1}{\alpha} e^{t/\alpha} F(r) dt + e^{t/\alpha} F'(r) dr$$

$$v = e^{-t/\alpha} F(r) \Rightarrow dv = -\frac{1}{\alpha} e^{-t/\alpha} F(r) dt + e^{-t/\alpha} F'(r) dr$$

: du du =
$$\left(\frac{1}{\alpha}F(r)dt + F'(r)dr\right)\left(-\frac{1}{\alpha}F(r)dt + F'(r)dr\right)$$

$$= -\frac{1}{\alpha^{2}}F(r) dt^{2} + (F'(r))^{2} dr^{2}$$

$$F(n) = e^{\frac{1}{\alpha} \int_{-\infty}^{\infty} \int_{-\infty}^{\infty} dn \, \lambda^{-1}(n)}$$

$$\Rightarrow lm F(r) = \frac{1}{\alpha} \int dr \lambda^{-1}(r)$$

$$\Rightarrow \frac{F'(h)}{F(h)} = \frac{1}{\infty} \lambda^{-1}(h)$$

$$\Rightarrow \lambda(n) = \frac{1}{\alpha} \frac{F(n)}{F'(n)}$$

There, the medic takes the form, -

$$\frac{f^{2}-1}{\alpha}\frac{F(n)}{F(n)}\frac{g^{2}+1}{g^{2}+1}\frac{f^{2}(n)}{F(n)}\frac{g^{2}+1}{g^{2}+1}\frac{g^{2}-1}{g^{2}+1}$$

$$=\frac{1}{2}\frac{\alpha}{n}\left(\frac{1}{n}\frac{g^{2}-1}{g^{2}-1}\frac{g^{2}-1}\frac{g^{2}-1}{g^{2}-1}\frac{g^{2}$$

$$ds^{2} = \pi 2 \cdot \frac{1}{2} \alpha^{2} \lambda(n) R(n) \frac{1}{F^{2}(n)} \left(-\frac{1}{\pi 2} F^{2}(n) dt^{2} + (F'(n))^{2} dn^{2}\right)$$

$$=2\frac{1}{2}\alpha^{2}-\lambda(r)e^{\frac{1}{2}}\int_{-\infty}^{\infty}\int_{-\infty}^{\infty}dr\,\lambda^{-1}(r)\,du\,dre+r^{2}d\Omega_{(\alpha-2)}^{2}$$

$$\therefore A(u,v) = \frac{1}{2} \alpha^2 \lambda(r) e^{-\frac{2}{\alpha}} \int dr \lambda^{-1}(r) ;$$

$$\left(\frac{g(w,v)}{g(w,v)} = \frac{n^2}{2} + \frac{1}{2} +$$

$$du = 0$$
; $g_{,u} = A_{,v} = 0$

$$\kappa = (r_{+} - r_{-})^{-(r_{+}^{2}/r_{+}^{2})/2} e^{(r_{+} - r_{-})/2r_{+}}$$

$$A = \frac{2r_{+}}{\alpha - 3} \kappa^{-2} \left(1 - \left(\frac{r_{-}}{r_{+}} \right)^{\alpha - 3} \right)^{-1}$$

$$uv \approx x^2 (r-r_+)^2 \Rightarrow r = r_+ + x^{-1} \sqrt{uv}$$

$$y_{1} = \frac{2x^{-1}r_{1}}{2\sqrt{1}nv} + x^{-2} \frac{1}{2xr_{1}} + x^{-2}$$

$$\Delta_{h,g} f = \frac{d-2}{2!} \frac{J_{h,g}}{A} f = 32 \pi \rho g A \delta^{(d-2)}(a)$$

$$\Rightarrow \Delta_{(d-2)} f - \frac{d-2}{2!} \frac{J_{h,g}}{A} \alpha_{(d,n_{+},r_{-})} f = 2\pi b (d,r_{+},r_{-}) \delta^{(d,\eta)}(a)$$

$$\Rightarrow \Delta_{(d-2)} f - \frac{d-2}{2!} \frac{J_{h,g}}{A} \alpha_{(d,n_{+},r_{-})} f = 2\pi b (d,r_{+},r_{-}) \delta^{(d,\eta)}(a)$$

$$\Rightarrow \Delta_{(d,r_{+},r_{-})} f = \frac{d-2}{2!} \frac{2r_{+} \alpha^{-2}}{2r_{+} \alpha^{-2}} (d-3) \left(1 - \left(\frac{r_{-}}{r_{+}}\right)^{(d-3)}\right)$$

$$= \frac{1}{2} (d-2)(d-3) \left(1 - \left(\frac{r_{-}}{r_{+}}\right)^{(d-3)}\right)$$

$$= b (d,r_{+},r_{-}) = 32 p r_{+}^{3} (d-3)^{-1} \alpha^{-2} \left(1 - \left(\frac{r_{-}}{r_{+}}\right)^{(d-3)}\right)^{-1}$$