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$$\rho(x) u_{t+} = \frac{\partial}{\partial x} (x(x) \frac{\partial u}{\partial x}) - \rho(x) u$$
, $t > 0$
Hy. $u(a,x) = \rho(x)$
 $\rho(x) u_{t+} = \frac{\partial}{\partial x} (x(x) \frac{\partial u}{\partial x}) - \rho(x) u$, $t > 0$

$$\frac{T}{T} = \frac{\partial}{\partial x} \left(\mathcal{K}(\infty) \chi' \right) \frac{1}{\sqrt{1 - 2}} - \frac{\partial}{\partial x} = C = -\chi^2$$

$$T'' = -3^{2}T$$
; $\int \frac{d}{dx} \left(\kappa(\alpha) \frac{dx}{d\alpha} \right) - 2 \left(\alpha x^{2} - 3^{2} \beta(\alpha) x^{2} \right)$
 $3 \text{ W-J.} \quad X(\alpha) = 0$
 $X(\alpha) = 0$

$$L[X] = \frac{d}{dx} \left(\kappa(x) \frac{dx}{dx} \right) - 9^{(x)} X$$

$$3. \mathcal{U} - \mathcal{J} \left[\begin{array}{c} L[X] + \lambda^2 \rho(x) X = 0 \\ \chi(0) = 0 \\ \chi(0) = 0 \end{array} \right]$$

$$(*)$$

Произвольных до-и $F(\infty)$, дважди непр. дидр. и эффондильных до-и $F(\infty)$, дважди непр. дидр. и удовл. гран. усл F(0)=0; F(0)=0 размагается в рабномири и абхолнотно сходим. рад по собетв. до-им з W-1 (*)

$$F(x) = \sum_{n=1}^{\infty} F_n X_n(x) ; \{X_n\} - \operatorname{codent}. op - \operatorname{col}(x) \}$$

$$F_n = \frac{1}{\|X_n\|^2} \int_{0}^{\infty} F(x) X_n(x) P(x) dx$$

$$\|X_n\|^2 = \int_{0}^{\infty} X_n^2(x) P(x) dx$$