



$$\begin{aligned} & \begin{array}{c} V^{(n+1)} \left( V^{(n)} \right)^{-1} = \left( \overrightarrow{1} + O\left( \frac{1}{2} \right) \right) \left( \overrightarrow{2} - O\left( \frac{1}{2} \right) \right) \\ & = \left( \overrightarrow{2} + A - A_2 \right) \\ &$$

 $\begin{array}{l}
Y^{(n)}(z) = Y^{(n)}(z) & \left(e^{-NV(z)/2} \circ O\right) \\
Y^{(n)}(z) = Y^{(n)}(z) & \left(e$ 22 (4) = An (2) entre function  $\begin{aligned}
&\text{deg } A_n(z) = \text{deg } V_{-1} \\
&\text{Vari} (z) = \begin{pmatrix} 2 - 6n & 2\pi i & a_n^2 & R_{n-1} \\
&-2\pi i & R_n^2 & 0 \end{pmatrix} \begin{pmatrix} n(z) = 86 \end{pmatrix} \begin{pmatrix} 2 \\ n(z) \end{pmatrix} \\
&\text{Vari} (z) = A_n(z) & \text{Var} (z) \\
&\text{Var} (z) = B_n(z) & \text{Var} (z)
\end{aligned}$   $\begin{aligned}
&\text{Var} (z) = B_n(z) & \text{Var} (z) \\
&\text{Var} (z) = B_n(z) & \text{Var} (z)
\end{aligned}$  $A_{n+1}(2) B_{n}(2) = B_{n}(2) + B_{n}(2) A_{n}(2)$   $V(x) = \frac{x^{4}}{4} + \frac{x^{2}}{2} \quad a_{n}^{2} \left( + \frac{x^{2}}{4} + \frac{x^{2}}{4} + \frac{x^{2}}{4} + \frac{x^{2}}{4} \right) = \frac{h}{h}$   $F_{n}(x) = \frac{h}{2} \quad \text{freed equation, s.f., single equ.}$   $A_{n}(x) = \frac{h}{2} \quad \text{for each equation}, \quad \text{s.f., single equ.}$   $A_{n}(x) = \frac{h}{2} \quad \text{for each equation}, \quad \text{s.f., single equ.}$   $A_{n}(x) = \frac{h}{2} \quad \text{for each equation}, \quad \text{s.f., single equ.}$   $A_{n}(x) = \frac{h}{2} \quad \text{for each equation}, \quad \text{s.f., single equ.}$   $A_{n}(x) = \frac{h}{2} \quad \text{for each equation}, \quad \text{s.f., single equ.}$   $A_{n}(x) = \frac{h}{2} \quad \text{for each equation}, \quad \text{s.f., single equ.}$   $A_{n}(x) = \frac{h}{2} \quad \text{for each equ.}$   $A_{n$ = x SV(c) Pu (x) Pu - (x) e lx - Y is analytoc in ( |R - Y = Y = (x) ( | e - u | (x) ) - 761 = (I ro(1)) (24 ou) 7 -

Y->->->R T,S,R so-126/y RMPs  $\begin{cases} R_{+} = R_{-} & J_{R} & J_{R} = T & as & n \to \infty \\ R_{+} = R_{-} & J_{R} & J_{R} = T & as & n \to \infty \end{cases}$ JESJ = Sjewisy) lu (x-y Tolkely + S La) sa). elx  $2 \int \ln |x-y| g(y) dy - V(x) = \ell \quad x \in supp g$   $2 \int \ln |x-y| g(y) dy - V(x) \leq \ell \quad x \notin supp g$  $\int \frac{g(y)dy}{y-x} + V(x) = 0$ g(x) = S lu (2-x) g (x) elx = 1 supps  $AS = -\infty \qquad g(z) = \{uz - \frac{2}{2}j\}$   $AS = -\infty \qquad g(z) = \{uz - \frac{2}{2}j\}$   $J = \{uz - \frac{2}{2$ Z = 0  $T(z) = T + O(\frac{1}{z})$  y = T - 1  $- (e^{n(g - \frac{1}{z})})$   $- (e^{n(g - \frac{1}{z})})$  7 solves Riemann-Hollort problem T is analy (re in ((R)  $T_{+}(x) = T_{-}(x) \left( e^{-n(g_{+}(x) - g_{-}(x))} \right)$ e (g+6)+g(x)-V(x)-e) en (g+(v) -g-(v))





