35.12316 Ag

35.12317

35.12317

Gaird Flum.

Laux Jacobi Gaus Serdal

Gaurs Jacobi

an 71+ a12 72+ a1373 = b, a2171, + a2272+ a2373 = b2 a3171, + a2372+ a3373 = b3

 $(2^{\circ}, 1/2^{\circ}, 1/3)$ h = 0, 1/2, ...

 $\chi_{1}^{n+1} = \frac{1}{a_{11}} \left(b_{1} - a_{12} \chi_{2}^{n} - a_{13} \chi_{3}^{n} \right)$ (n+1)

 $\chi_{2}^{n+1} = \frac{1}{q_{22}} (h_{2} - q_{21} \chi_{1}^{n} - q_{23} \chi_{3}^{n})$

 $\begin{array}{lll}
n = 0 \\
\lambda_{1}^{1} & = \frac{1}{a_{11}} \left(b_{1} - a_{12} \chi_{2}^{0} - a_{13} \chi_{3}^{0} \right) \\
\chi_{2}^{1} & = \frac{1}{a_{12}} \left(b_{2} - a_{21} \chi_{1}^{0} - a_{23} \chi_{3}^{0} \right) \\
\chi_{3}^{1} & = \frac{1}{a_{33}} \left(b_{3} - a_{31} \chi_{1}^{0} - a_{32} \chi_{2}^{0} \right) \\
\left(\chi_{1}^{1} \chi_{2}^{1}, \chi_{1}^{1} \right)
\end{array}$

$$\frac{(2)}{(2)} \frac{(2)}{(2)} \frac{(2$$

72- 95-11(2)+4(20448)

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$$|x^{k+1} - x^{k}| \le \xi$$
 $|y^{k+1} - y^{k}| \le \xi$
 $|z^{k+1} - z^{k}| \le \xi$
 $|z^{k+1} - z^{k}| \le \xi$

Jains Seidal

 $a_{11}x_{1} + a_{12}x_{12} + a_{13}x_{3} = b_{1}$ $a_{21}x_{1} + a_{22}x_{12} + a_{13}x_{3} = b_{2}$ $a_{31}x_{1} + a_{32}x_{12} + a_{33}x_{3} = b_{3}$ $a_{11}x_{1} + a_{32}x_{12} + a_{33}x_{2} = b_{3}$ $a_{11}x_{1} + a_{12}x_{12} = b_{11}x_{12} - a_{13}x_{13}$ $a_{21}x_{1}^{k+1} + a_{32}x_{12}^{k+1} = b_{2} - a_{23}x_{3}^{k+1}$ $a_{31}x_{1}^{k+1} + a_{32}x_{12}^{k+1} + a_{33}x_{3}^{k+1} = b_{3}$

$$\frac{9}{4x+5} = \frac{95-11}{4x+5} = \frac{104}{2}$$

$$\frac{7}{4x+5} = \frac{95-11}{83} = \frac{104}{2}$$

$$\frac{7}{4x+5} = \frac{95-11}{83} = \frac{104}{2}$$

$$\frac{7}{4x+5} = \frac{104-13}{2} = \frac{104}{2}$$

$$\frac{7}{4x+5} = \frac{104-13}{2} = \frac{104}{2}$$

$$\frac{7}{4x+5} = \frac{104-13}{2} = \frac{104-7(1+44)}{2}$$

$$\frac{7}{4x+5} = \frac{104-13}{2} = \frac{104-13}{2}$$

$$\frac{7}{4x+5} = \frac{104-13}{2} = \frac{104-7(1+44)}{2}$$

$$\frac{7}{4x+5} = \frac{104-13}{2} = \frac{104-13}{2}$$

$$\frac{7}{4x+5} = \frac{104-13}{2} = \frac{104-7(1+44)}{2}$$

$$\frac{7}{4x+5} = \frac{104-13}{2} = \frac{104-13}{2}$$

$$\frac{7}{4x+5} = \frac{104-13}$$

Convergence of Gaus Jacobi'l Gaus Scredel Ap ->nxn deagonally dominant

[aii [> [[] []]] 83 x + 11 y -42 =95 - 85 11 -4 7 52 13 7-d +5 dy +132 =104 3x + 8y + 29 Z 27/ (211) 176 123) $A \rightarrow n \times n$ Arzb Sufficient and for convergence of Gans Jawshi & Serdal Wher A a deagonally dominant & there is atless ont megullary involved å

Gaus Jacobi 2 Serdel Conneger.

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931 932 933