$$L^{2}\begin{pmatrix}0&0&0\\5&0&0\\4&2&0\end{pmatrix}, D=\begin{pmatrix}8&0&0\\0&9&0\\0&0&4\end{pmatrix}, R=\begin{pmatrix}0&5&2\\0&0&1\\0&0&0\end{pmatrix}$$

$$= -\left(\frac{\frac{1}{8}}{\frac{1}{8}} \begin{array}{c} 0 & 0 \\ -\frac{5}{72} \begin{array}{c} \frac{1}{3} & 0 \\ -\frac{13}{252} \begin{array}{c} -\frac{2}{63} \end{array} \begin{array}{c} \frac{1}{7} \\ 0 & 0 \end{array}\right) \cdot \begin{pmatrix} 0 & 52 \\ 0 & 0 \end{array}) + \begin{pmatrix} \frac{1}{8} & 0 & 0 \\ -\frac{5}{72} \begin{array}{c} \frac{1}{8} & 0 \\ -\frac{13}{252} \begin{array}{c} -\frac{2}{63} \end{array} \begin{array}{c} \frac{1}{7} \\ \frac{1}{8} \end{array} \right) \cdot \begin{pmatrix} 15 \\ 5 \\ 34 \end{pmatrix}$$

$$=\begin{pmatrix} 0 & \frac{5}{8} & \frac{1}{4} \\ 0 & -\frac{25}{12} & -\frac{1}{36} \\ 0 & -\frac{65}{152} & -\frac{11}{426} \end{pmatrix} \bullet \begin{pmatrix} \times_{4} \\ \times_{2} \\ \times_{3} \end{pmatrix} + \begin{pmatrix} \times_{4} \\ -\frac{55}{152} \\ -\frac{31}{1252} \end{pmatrix} = \begin{pmatrix} 0 & -\frac{5}{18} & -\frac{14}{14} \\ 0 & \frac{25}{12} & \frac{1}{126} \\ 0 & \frac{15}{12} & \frac{17}{126} \end{pmatrix} \cdot \begin{pmatrix} \times_{1} \\ \times_{2} \\ \times_{3} \end{pmatrix} + \begin{pmatrix} 1\frac{9}{18} \\ -\frac{55}{12} \\ -\frac{17}{12} \\ -\frac{17}{12}$$

$$x_{0} = \begin{pmatrix} 1 \\ -1 \\ 3 \end{pmatrix}, \quad x_{1} = \begin{pmatrix} 9/4 \\ -37/36 \\ 483/$$

Konbrakbionsbedingung:
$$1 > 11811_{\circ} > \frac{7}{8} \Rightarrow Bedingung or fielt
 $11 \times - \times 11_{\circ} \leq \frac{11811_{\circ}}{1 - 11811_{\circ}} \cdot 11 \times 1 - \times 11_{\circ} \leq \frac{\frac{7}{8}}{1 - \frac{7}{8}} \cdot 11 \times 1 - \times 11_{\circ} \leq \frac{\frac{7}{8}}{1 - \frac{7}{8}} \cdot 11 \times 1 - \times 11_{\circ} \leq \frac{\frac{7}{8}}{1 - \frac{7}{8}} \cdot 11 \times 1 - \times 11_{\circ} \leq \frac{\frac{7}{8}}{1 - \frac{7}{8}} \cdot 11 \times 1 - \times 11_{\circ} \leq \frac{\frac{7}{8}}{1 - \frac{7}{8}} \cdot 11 \times 1 - \times 11_{\circ} \leq \frac{\frac{7}{8}}{1 - \frac{7}{8}} \cdot 11 \times 1 - \times 11_{\circ} \leq \frac{\frac{7}{8}}{1 - \frac{7}{8}} \cdot 11 \times 1 - \times 11_{\circ} \leq \frac{\frac{7}{8}}{1 - \frac{7}{8}} \cdot 11 \times 1 - \times 11_{\circ} \leq \frac{\frac{7}{8}}{1 - \frac{7}{8}} \cdot 11 \times 1 - \times 11_{\circ} \leq \frac{\frac{7}{8}}{1 - \frac{7}{8}} \cdot 11 \times 1 - \times 11_{\circ} \leq \frac{\frac{7}{8}}{1 - \frac{7}{8}} \cdot 11 \times 1 - \times 11_{\circ} \leq \frac{\frac{7}{8}}{1 - \frac{7}{8}} \cdot 11 \times 1 - \times 11_{\circ} \leq \frac{\frac{7}{8}}{1 - \frac{7}{8}} \cdot 11 \times 1 - \times 11_{\circ} \leq \frac{\frac{7}{8}}{1 - \frac{7}{8}} \cdot 11 \times 1 - \times 11_{\circ} \leq \frac{7}{1 - \frac{7}{8}} \cdot 11 \times 1 - \times 11_{\circ} \leq \frac{7}{1 - \frac{7}{8}} \cdot 11 \times 1 - \times 11_{\circ} \leq \frac{7}{1 - \frac{7}{8}} \cdot 11 \times 1 - \times 11_{\circ} \leq \frac{7}{1 - \frac{7}{8}} \cdot 11 \times 1 - \times 11_{\circ} \leq \frac{7}{1 - \frac{7}{8}} \cdot 11 \times 1 - \times 11_{\circ} \leq \frac{7}{1 - \frac{7}{8}} \cdot 11 \times 11_{\circ} \leq \frac{7}{1 - \frac{7}{8}} \cdot 11_{\circ} \leq \frac{7}{1 - \frac{7$$$

$$\leq \frac{\frac{7}{1-\frac{3}{2}} \cdot \frac{1369}{37632}}{\frac{1}{37632}} \leq \frac{1369}{5376} \leq 0.2546}$$

Per maximale absolute Fether beträgt 0.2546.

$$\Rightarrow 10^{4} \leqslant \frac{7}{8}^{n} \cdot \frac{5}{4}$$

$$\Rightarrow \frac{10^{4} \cdot \frac{1}{8}}{\frac{3}{4}} \leq \frac{7}{8}^{n}$$

$$\Rightarrow \log \frac{7}{8} \left(\frac{10^{-4} \cdot \frac{1}{8}}{\frac{5}{4}}\right) \leq n$$

Laut der Berechnung sind mindestens 87 Verationen notwendig.