```
SHD - Blat 4
                                                                                                                                                                                       \binom{1}{4}, \binom{2}{4}, \binom{2}{2}, \binom{2}{2}, \binom{2}{3}, \binom{3}{3}
     Population 1: (15), (215), (315), (215), (215), (215)
 → H<sub>0</sub> = (3/2) (3/2) (3/2)
                               Si = E (x) - pi) (x) - pi) T
                 So = (1/22) 1/244 - 1/2 | 1/244 - 1/2 | 1/25/244 0 | 1/244 0 | 1/244 1/2 | 1/244 1/2 | 1/244 1/2 | 1/244 1/2 | 1/244 1/2 | 1/244 1/2 | 1/244 1/2 | 1/244 1/2 | 1/244 1/2 | 1/244 1/2 | 1/244 1/2 | 1/244 1/2 | 1/244 1/2 | 1/244 1/2 | 1/244 1/2 | 1/244 1/2 | 1/244 1/2 | 1/244 1/2 | 1/244 1/2 | 1/244 1/2 | 1/244 1/2 | 1/244 1/2 | 1/244 1/2 | 1/244 1/2 | 1/244 1/2 | 1/244 1/2 | 1/244 1/2 | 1/244 1/2 | 1/244 1/2 | 1/244 1/2 | 1/244 1/2 | 1/244 1/2 | 1/244 1/2 | 1/244 1/2 | 1/244 1/2 | 1/244 1/2 | 1/244 1/2 | 1/244 1/2 | 1/244 1/2 | 1/244 1/2 | 1/244 1/2 | 1/244 1/2 | 1/244 1/2 | 1/244 1/2 | 1/244 1/2 | 1/244 1/2 | 1/244 1/2 | 1/244 1/2 | 1/244 1/2 | 1/244 1/2 | 1/244 1/2 | 1/244 1/2 | 1/244 1/2 | 1/244 1/2 | 1/244 1/2 | 1/244 1/2 | 1/244 1/2 | 1/244 1/2 | 1/244 1/2 | 1/244 1/2 | 1/244 1/2 | 1/244 1/2 | 1/244 1/2 | 1/244 1/2 | 1/244 1/2 | 1/244 1/2 | 1/244 1/2 | 1/244 1/2 | 1/244 1/2 | 1/244 1/2 | 1/244 1/2 | 1/244 1/2 | 1/244 1/2 | 1/244 1/2 | 1/244 1/2 | 1/244 1/2 | 1/244 1/2 | 1/244 1/2 | 1/244 1/2 | 1/244 1/2 | 1/244 1/2 | 1/244 1/2 | 1/244 1/2 | 1/244 1/2 | 1/244 1/2 | 1/244 1/2 | 1/244 1/2 | 1/244 1/2 | 1/244 1/2 | 1/244 1/2 | 1/244 1/2 | 1/244 1/2 | 1/244 1/2 | 1/244 1/2 | 1/244 1/2 | 1/244 1/2 | 1/244 1/2 | 1/244 1/2 | 1/244 1/2 | 1/244 1/2 | 1/244 1/2 | 1/244 1/2 | 1/244 1/2 | 1/244 1/2 | 1/244 1/2 | 1/244 1/2 | 1/244 1/2 | 1/244 1/2 | 1/244 1/2 | 1/244 1/2 | 1/244 1/2 | 1/244 1/2 | 1/244 1/2 | 1/244 1/2 | 1/244 1/2 | 1/244 1/2 | 1/244 1/2 | 1/244 1/2 | 1/244 1/2 | 1/244 1/2 | 1/244 1/2 | 1/244 1/2 | 1/244 1/2 | 1/244 1/2 | 1/244 1/2 | 1/244 1/2 | 1/244 1/2 | 1/244 1/2 | 1/244 1/2 | 1/244 1/2 | 1/244 1/2 | 1/244 1/2 | 1/244 1/2 | 1/244 1/2 | 1/244 1/2 | 1/244 1/2 | 1/244 1/2 | 1/244 1/2 | 1/244 1/2 | 1/244 1/2 | 1/244 1/2 | 1/244 1/2 | 1/244 1/2 | 1/244 1/2 | 1/244 1/2 | 1/244 1/2 | 1/244 1/2 | 1/244 1/2 | 1/244 1/2 | 1/244 1/2 | 1/244 1/2 | 1/244 1/2 | 1/244 1/2 | 1/244 1/2 | 1/244 1/2 | 1/244 1/2 | 1/244 1/2 | 1/244 1/2 | 1/244 1/2 | 1/244 1/2 | 1/244 1/2 | 1/244 1/2 | 1/244 1/2 | 1/244 1/2 | 1/244 1/2 | 1/2
                                     73/24 2
2 4
3_{4} = \begin{pmatrix} 3/4 & 3/4 \\ 3/4 & 3/4 \\ \end{pmatrix} + \begin{pmatrix} 3/4 & 3/4 \\ 3/4 & 1/4 \\ \end{pmatrix} + \begin{pmatrix} 3/4 & 3/4 \\ -3/4 & 3/4 \\ \end{pmatrix} + \begin{pmatrix} 3/4 & 3/4 \\ -3/4 & 3/4 \\ \end{pmatrix} + \begin{pmatrix} 3/4 & 3/4 \\ -3/4 & 3/4 \\ \end{pmatrix} + \begin{pmatrix} 3/4 & 3/4 \\ -3/4 & 3/4 \\ \end{pmatrix} + \begin{pmatrix} 3/4 & 3/4 \\ -3/4 & 3/4 \\ \end{pmatrix} + \begin{pmatrix} 3/4 & 3/4 \\ -3/4 & 3/4 \\ \end{pmatrix} + \begin{pmatrix} 3/4 & 3/4 \\ -3/4 & 3/4 \\ \end{pmatrix} + \begin{pmatrix} 3/4 & 3/4 \\ -3/4 & 3/4 \\ \end{pmatrix} + \begin{pmatrix} 3/4 & 3/4 \\ -3/4 & 3/4 \\ \end{pmatrix} + \begin{pmatrix} 3/4 & 3/4 \\ -3/4 & 3/4 \\ \end{pmatrix} + \begin{pmatrix} 3/4 & 3/4 \\ -3/4 & 3/4 \\ \end{pmatrix} + \begin{pmatrix} 3/4 & 3/4 \\ -3/4 & 3/4 \\ \end{pmatrix} + \begin{pmatrix} 3/4 & 3/4 \\ -3/4 & 3/4 \\ \end{pmatrix} + \begin{pmatrix} 3/4 & 3/4 \\ -3/4 & 3/4 \\ \end{pmatrix} + \begin{pmatrix} 3/4 & 3/4 \\ -3/4 & 3/4 \\ \end{pmatrix} + \begin{pmatrix} 3/4 & 3/4 \\ -3/4 & 3/4 \\ \end{pmatrix} + \begin{pmatrix} 3/4 & 3/4 \\ -3/4 & 3/4 \\ \end{pmatrix} + \begin{pmatrix} 3/4 & 3/4 \\ -3/4 & 3/4 \\ \end{pmatrix} + \begin{pmatrix} 3/4 & 3/4 \\ -3/4 & 3/4 \\ \end{pmatrix} + \begin{pmatrix} 3/4 & 3/4 \\ -3/4 & 3/4 \\ \end{pmatrix} + \begin{pmatrix} 3/4 & 3/4 \\ -3/4 & 3/4 \\ \end{pmatrix} + \begin{pmatrix} 3/4 & 3/4 \\ -3/4 & 3/4 \\ \end{pmatrix} + \begin{pmatrix} 3/4 & 3/4 \\ -3/4 & 3/4 \\ \end{pmatrix} + \begin{pmatrix} 3/4 & 3/4 \\ -3/4 & 3/4 \\ \end{pmatrix} + \begin{pmatrix} 3/4 & 3/4 \\ -3/4 & 3/4 \\ \end{pmatrix} + \begin{pmatrix} 3/4 & 3/4 \\ -3/4 & 3/4 \\ \end{pmatrix} + \begin{pmatrix} 3/4 & 3/4 \\ -3/4 & 3/4 \\ \end{pmatrix} + \begin{pmatrix} 3/4 & 3/4 \\ -3/4 & 3/4 \\ \end{pmatrix} + \begin{pmatrix} 3/4 & 3/4 \\ -3/4 & 3/4 \\ \end{pmatrix} + \begin{pmatrix} 3/4 & 3/4 \\ -3/4 & 3/4 \\ \end{pmatrix} + \begin{pmatrix} 3/4 & 3/4 \\ -3/4 & 3/4 \\ \end{pmatrix} + \begin{pmatrix} 3/4 & 3/4 \\ -3/4 & 3/4 \\ \end{pmatrix} + \begin{pmatrix} 3/4 & 3/4 \\ -3/4 & 3/4 \\ \end{pmatrix} + \begin{pmatrix} 3/4 & 3/4 \\ -3/4 & 3/4 \\ \end{pmatrix} + \begin{pmatrix} 3/4 & 3/4 \\ -3/4 & 3/4 \\ \end{pmatrix} + \begin{pmatrix} 3/4 & 3/4 \\ -3/4 & 3/4 \\ \end{pmatrix} + \begin{pmatrix} 3/4 & 3/4 \\ -3/4 & 3/4 \\ \end{pmatrix} + \begin{pmatrix} 3/4 & 3/4 \\ -3/4 & 3/4 \\ \end{pmatrix} + \begin{pmatrix} 3/4 & 3/4 \\ -3/4 & 3/4 \\ \end{pmatrix} + \begin{pmatrix} 3/4 & 3/4 \\ -3/4 & 3/4 \\ \end{pmatrix} + \begin{pmatrix} 3/4 & 3/4 \\ -3/4 & 3/4 \\ \end{pmatrix} + \begin{pmatrix} 3/4 & 3/4 \\ -3/4 & 3/4 \\ \end{pmatrix} + \begin{pmatrix} 3/4 & 3/4 \\ -3/4 & 3/4 \\ \end{pmatrix} + \begin{pmatrix} 3/4 & 3/4 \\ -3/4 & 3/4 \\ \end{pmatrix} + \begin{pmatrix} 3/4 & 3/4 \\ -3/4 & 3/4 \\ \end{pmatrix} + \begin{pmatrix} 3/4 & 3/4 \\ -3/4 & 3/4 \\ \end{pmatrix} + \begin{pmatrix} 3/4 & 3/4 \\ -3/4 & 3/4 \\ \end{pmatrix} + \begin{pmatrix} 3/4 & 3/4 \\ -3/4 & 3/4 \\ \end{pmatrix} + \begin{pmatrix} 3/4 & 3/4 \\ -3/4 & 3/4 \\ \end{pmatrix} + \begin{pmatrix} 3/4 & 3/4 \\ -3/4 & 3/4 \\ \end{pmatrix} + \begin{pmatrix} 3/4 & 3/4 \\ -3/4 & 3/4 \\ \end{pmatrix} + \begin{pmatrix} 3/4 & 3/4 \\ -3/4 & 3/4 \\ \end{pmatrix} + \begin{pmatrix} 3/4 & 3/4 \\ -3/4 & 3/4 \\ \end{pmatrix} + \begin{pmatrix} 3/4 & 3/4 \\ -3/4 & 3/4 \\ \end{pmatrix} + \begin{pmatrix} 3/4 & 3/4 \\ -3/4 & 3/4 \\ \end{pmatrix} + \begin{pmatrix} 3/4 & 3/4 \\ -3/4 & 3/4 \\ \end{pmatrix} + \begin{pmatrix} 3/4 & 3/4 \\ -3/4 & 3/4 \\ \end{pmatrix} + \begin{pmatrix} 3/4 & 3/4 \\ -3/4 & 3/4 \\ \end{pmatrix} + \begin{pmatrix} 3/4 & 3/4 \\ -3/4 & 3/4 \\ \end{pmatrix} + \begin{pmatrix} 3/4 & 3/4 \\ -3/4 & 3/4 \\ \end{pmatrix} + \begin{pmatrix} 3/4 & 3/4 \\ -3/4 & 3/4 \\ \end{pmatrix} + \begin{pmatrix} 3/4 & 3/4 \\ -3/4 & 3/4 \\ \end{pmatrix} + \begin{pmatrix} 3/4 & 3/4 \\ -3/4 & 3/4 \\ \end{pmatrix} + \begin{pmatrix} 3/4 & 3/4 \\ -3/4 & 3/
                   S_{10} = S_{10} + S_{11} + \begin{pmatrix} 185 \\ 24 \\ 3/2 \end{pmatrix} \xrightarrow{3/2} \begin{pmatrix} 9_{11} & 9_{11} & 9_{11} \\ -9_{11} & 9_{11} & 9_{11} \\ -9_{11} & 9_{11} & 9_{11} \end{pmatrix} = \begin{pmatrix} 0_{11} & 0_{12} & 0_{11} & 0_{11} \\ -0_{11} & 0_{12} & 0_{11} & 0_{11} \end{pmatrix}
       S_8 = (\vec{\mu}_0 - \vec{\mu}_1)(\vec{\mu}_0 - \vec{\mu}_1)^T = \begin{pmatrix} 168/244 & -13/24 \\ -13/24 & 1/4 \end{pmatrix}
         b) \vec{\chi} = S_{\omega}^{-1} (\vec{\mu_0} - \vec{\mu_1}) = \begin{pmatrix} -\frac{320}{4447} \\ \frac{367}{4447} \end{pmatrix} = \begin{pmatrix} -0.256 \\ 0.254 \end{pmatrix}
                                        \vec{\lambda} = \lambda \vec{e}_{\lambda} = 0.360 \cdot \left( \begin{array}{c} -6.720 \\ 0.220 \end{array} \right)
```

