ANALYSIS ON FINAL OUTPUT OF DIRECT COMP PAPER -) The aim here is to understand the structure of Har -) The structure of Ha proposed in paper, should satisfy $[M_{j}(2)]^{2} + [M_{j}(3)]^{2} = M_{j}(4), [X_{j}^{2} + Y_{j}^{2} = M_{j}^{T}M_{j}] [2D]$ after obtaining Mj = Halls Hm Mj (-Mj = HMj)--> This analysis is based on microphone constraints only. -> We already checked HotBHa = Q condition, 2 it's working, but we need to check (ii) condition. -> The following analysis concludes that condition (ii) is not satisfied, in which case we have to find another alternative for He structure. -> From the coding results too, condition (in is not a brilliage of torner ! -> Let's analyse this.

$$\Rightarrow M_{j} = HM_{j} = H_{0}H_{S} + M_{M} - 0$$

$$\Rightarrow S_{j} = (H_{0})^{T} \hat{S}_{i} = (H_{0})^{T} \hat{S}_{j} + M_{M}^{T} \hat{S}_{i} - 2$$

$$\Rightarrow H_{S} = \begin{bmatrix} I & h_{S} \\ 0 & I \end{bmatrix} \hat{S}_{i} + \begin{bmatrix} I_{1} & h_{1} \\ h_{2} & I_{3} \end{bmatrix} \hat{S}_{i} + \begin{bmatrix} I_{2} & h_{3} \\ 0 & I_{4} \end{bmatrix} \hat{S}_{i} + \begin{bmatrix} I_{1} & h_{3} \\ 0 & I_{4} \end{bmatrix} \hat{S}_{i} + \begin{bmatrix} I_{1} & h_{3} \\ 0 & I_{4} \end{bmatrix} \hat{S}_{i} + \begin{bmatrix} I_{1} & h_{3} \\ 0 & I_{4} \end{bmatrix} \hat{S}_{i} + \begin{bmatrix} I_{1} & h_{3} \\ 0 & I_{4} \end{bmatrix} \hat{S}_{i} + \begin{bmatrix} I_{1} & h_{3} \\ 0 & I_{4} \end{bmatrix} \hat{S}_{i} + \begin{bmatrix} I_{1} & h_{3} \\ 0 & I_{4} \end{bmatrix} \hat{S}_{i} + \begin{bmatrix} I_{1} & h_{3} \\ 0 & I_{4} \end{bmatrix} \hat{S}_{i} + \begin{bmatrix} I_{1} & h_{3} \\ 0 & I_{4} \end{bmatrix} \hat{S}_{i} + \begin{bmatrix} I_{1} & h_{3} \\ 0 & I_{4} \end{bmatrix} \hat{S}_{i} + \begin{bmatrix} I_{1} & h_{3} \\ 0 & I_{4} \end{bmatrix} \hat{S}_{i} + \begin{bmatrix} I_{1} & h_{3} \\ 0 & I_{4} \end{bmatrix} \hat{S}_{i} + \begin{bmatrix} I_{1} & h_{3} \\ 0 & I_{4} \end{bmatrix} \hat{S}_{i} + \begin{bmatrix} I_{1} & h_{3} \\ 0 & I_{4} \end{bmatrix} \hat{S}_{i} + \begin{bmatrix} I_{1} & h_{3} \\ 0 & I_{4} \end{bmatrix} \hat{S}_{i} + \begin{bmatrix} I_{1} & h_{3} \\ 0 & I_{4} \end{bmatrix} \hat{S}_{i} + \begin{bmatrix} I_{1} & h_{3} \\ 0 & I_{4} \end{bmatrix} \hat{S}_{i} + \begin{bmatrix} I_{1} & h_{3} \\ 0 & I_{4} \end{bmatrix} \hat{S}_{i} + \begin{bmatrix} I_{1} & h_{3} \\ 0 & I_{4} \end{bmatrix} \hat{S}_{i} + \begin{bmatrix} I_{1} & h_{3} \\ 0 & I_{4} \end{bmatrix} \hat{S}_{i} + \begin{bmatrix} I_{1} & h_{3} \\ 0 & I_{4} \end{bmatrix} \hat{S}_{i} + \begin{bmatrix} I_{1} & h_{3} \\ 0 & I_{4} \end{bmatrix} \hat{S}_{i} + \begin{bmatrix} I_{1} & h_{3} \\ 0 & I_{4} \end{bmatrix} \hat{S}_{i} + \begin{bmatrix} I_{1} & h_{3} \\ 0 & I_{4} \end{bmatrix} \hat{S}_{i} + \begin{bmatrix} I_{1} & h_{3} \\ 0 & I_{4} \end{bmatrix} \hat{S}_{i} + \begin{bmatrix} I_{1} & h_{3} \\ 0 & I_{4} \end{bmatrix} \hat{S}_{i} + \begin{bmatrix} I_{1} & h_{3} \\ 0 & I_{4} \end{bmatrix} \hat{S}_{i} + \begin{bmatrix} I_{1} & h_{3} \\ 0 & I_{4} \end{bmatrix} \hat{S}_{i} + \begin{bmatrix} I_{1} & h_{3} \\ 0 & I_{4} \end{bmatrix} \hat{S}_{i} + \begin{bmatrix} I_{1} & h_{3} \\ 0 & I_{4} \end{bmatrix} \hat{S}_{i} + \begin{bmatrix} I_{1} & h_{3} \\ 0 & I_{4} \end{bmatrix} \hat{S}_{i} + \begin{bmatrix} I_{1} & h_{3} \\ 0 & I_{4} \end{bmatrix} \hat{S}_{i} + \begin{bmatrix} I_{1} & h_{3} \\ 0 & I_{4} \end{bmatrix} \hat{S}_{i} + \begin{bmatrix} I_{1} & h_{3} \\ 0 & I_{4} \end{bmatrix} \hat{S}_{i} + \begin{bmatrix} I_{1} & h_{3} \\ 0 & I_{4} \end{bmatrix} \hat{S}_{i} + \begin{bmatrix} I_{1} & h_{4} \\ 0 & I_{4} \end{bmatrix} \hat{S}_{i} + \begin{bmatrix} I_{1} & h_{4} \\ 0 & I_{4} \end{bmatrix} \hat{S}_{i} + \begin{bmatrix} I_{1} & h_{4} \\ 0 & I_{4} \end{bmatrix} \hat{S}_{i} + \begin{bmatrix} I_{1} & h_{4} \\ 0 & I_{4} \end{bmatrix} \hat{S}_{i} + \begin{bmatrix} I_{1} & h_{4} \\ 0 & I_{4} \end{bmatrix} \hat{S}_{i} + \begin{bmatrix} I_{1} & h_{4} \\ 0 & I_{4} \end{bmatrix} \hat{S}_{i} + \begin{bmatrix} I_{1} & h_{4} \\ 0 & I_{4} \end{bmatrix} \hat{S}_{i} + \begin{bmatrix} I_{1} & h_{4} \\ 0 & I_{4} \end{bmatrix} \hat{S}_{i} + \begin{bmatrix} I_{1} & h_{4} \\ 0 & I_{4} \end{bmatrix} \hat{S}_{i} + \begin{bmatrix} I_{1} & h_{4} \\ 0 & I_{4}$$

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\end{bmatrix} \\
&= \begin{bmatrix}
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+ & (M_{1}(3)) - \frac{1}{8}(M_{1}(4))
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&= \begin{bmatrix}
1 & 1$$

From the structure of Mj, We $M_j(2)$ $M_j(2)$ $M_j(3)$ $M_j(3)$ $M_j(3)$ $M_j(3)$ LHS = $\begin{bmatrix} + RK & M_{j}(2) - P(M_{j}(4)) \\ M_{j}(3) - P(M_{j}(4)) \end{bmatrix} + RK & M_{j}(2) - P(M_{j}(4)) \\ M_{j}(3) - P(M_{j}(4)) \end{bmatrix}$ = $t^{T}t + t^{T}RK \left[M_{j}^{(2)} - P_{j}^{(M_{j}^{(4)})} \right]$ $M_{j}^{(3)} - \frac{9}{8} \left(M_{j}^{(4)} \right)$ + [M(2)-P(M(4)) M(3)-8(M(4)) [KTRT+ $[M_{j}(2) - \frac{1}{5}(M_{j}(4))] \stackrel{\wedge}{M_{j}(3)} - \frac{1}{5}(M_{j}(4))] \stackrel{\wedge}{K} [M_{j}(2) - \frac{1}{5}(M_{j}(4))] \stackrel{\wedge}{M_{j}(3)} - \frac{1}{5}(M_{j}(4))]$ $\left[\stackrel{\wedge}{M}_{j}(3) - \frac{9}{8} \left(\stackrel{\wedge}{M}_{j}(4) \right) \right]$ Q22 Q22 Q23 Q33

$$RHS = t^{T}t - Q_{11} + 2\left(t^{T}RK - Q_{12}Q_{13}\right) \left[\stackrel{\wedge}{M_{3}}(2) - \stackrel{\wedge}{F}(\stackrel{\wedge}{M_{3}}(4))\right] + \frac{1}{8}\left(\stackrel{\wedge}{M_{3}}(4)\right) + \frac{1}{8}\left(\stackrel{\wedge}{M_{3}}(4)\right) + \frac{1}{8}\left(\stackrel{\wedge}{M_{3}}(4)\right) + \frac{1}{8}\left(\stackrel{\wedge}{M_{3}}(4)\right) - \frac{1}{8}\left(\stackrel{\wedge}{M_{3}}(4)\right) - \frac{1}{8}\left(\stackrel{\wedge}{M_{3}}(4)\right) - \frac{1}{8}\left(\stackrel{\wedge}{M_{3}}(4)\right) + \frac{1}{8}\left(\stackrel{\wedge}$$

which is not 'o' in general

(also observed it substitute (P1918), amatrix values,

Microphone (M; values); it is not giving of as

result, but some huge value).