## hs 2 hm: DIFFERENT CASES 2 OUTPUTS -> In section 2.3 of direct computation paper, we compute Hs 2 HM as follows HM = Thm Hs = Ths o To compute him To compute to hs. In paper, It is stated that, to remain the first row of the unchanged, first element of he has to be zero. Himmi because,

The olps for these cases are based on "direct-comp-papers-script", where we calculate the "direct-comp-papers-script", where we calculate the total relative errors, part-by-part rel-errors wirt true total relative errors, part-by-part rel-errors.

EDMs., I following are the observations.

1 Source, 4 virtual sources, 8 Mics S = 340 \$ [3 2] M = 340 \$ [16; 25; 45; 44; 5 1; 66; 71; 73] Ti = [2; 2; 2; 2; 2].

Cases Total Mic-mic Sour-mic Rel-error Rel-err	Cases Reherror reherror  S X 0.4158 0.7500  S M 0.4257 0.6806  X M 24.1669 0.9881  X X 24.1672 0.9881	0.5814 2.8×10 <sup>-15</sup> 0.5826 0.1441 33.2367 11.8152 33.2371 11.8154
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Rounded ones - lower values.

a In AM(x M) & (x x) case, Qmid is not PSD; so not valid

2) 1 Source, 2 V.S, 12 Mics

S=340'[32] M=340''[16;25;445;44;51;66;71; Ti=[212;212;2].

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Cases	Reliervor	Mic-Mic Relierror	Sour-Mit part Reli error	Sour-sour	
SX	0.4853	0.7500	0-6043	3×10-15	
SM	0.4973	0.6764	0.6086	0-1965	

(x M), (x x) -> In Valid : cases.

1 Source, 4 V.S., 16 Mics

Same S, VS, May in case 2 + 4 Mics [14;27;55;63]

Cases	Total	1 MIC-MIC	Sour-Mic	Sour-sons."
(C V	Relievos	0.7500	(0.5981)	1.2×10-15
S M	0.5088	(0.6789)	0.600	0.191151-0
3 //	0 20146	11 1776	11 (00)	Polling

(r, M), (r m) -> Invalid Cases

Conclusion !

ir (S X), (S M) are the only valid cases, & for any no. of mics, Total. Releasor is less for (s x) [the one proposed in paper], but (s M) is estimating the MIR- MIR part of the EDM well (less Relierror).