```
>> SIS(2.18,0.5, 100, 1, 4)
Infected sensitivity matrix:
   0.0083 -0.7870
   0.0133 -1.2652
   0.0164 -1.5556
   0.0182 -1.7320
Column 1 norm =
   0.0291
Column 2 norm =
   2.7640
SI Eigenvectors Matrix:
  -0.9999 -0.0105
  -0.0105 0.9999
SI Eigenvalues Matrix:
   0.0000 0
0 7.6406
SI Correlation Matrix:
   1 -1
        1
   -1
Mixed sensitivity matrix:
   0.0083 -0.7870
  -0.0083 0.7870
   0.0133 -1.2652
  -0.0133 1.2652
   0.0164 -1.5556
          1.5556
  -0.0164
   0.0182 -1.7320
  -0.0182 1.7320
Column 1 norm =
   0.0411
Column 2 norm =
   3.9089
SIS Eigenvectors Matrix:
  -0.9999 -0.0105
  -0.0105 0.9999
SIS Eigenvalues Matrix:
   0.0000
      0 15.2812
SIS Correlation Matrix:
    1 -1
   -1
        1
```

```
>> SIR(0.2, 1, 0.4, 0.1, 1, 5)
Infected sensivity matrix:
   0.1092 -0.2963
   0.1328 -0.3884
   0.1301 -0.4155
   0.1202 -0.4222
Column 1 norm = 0.2468296
Column 2 norm = 0.7678233
SI Eigenvectors Matrix:
  -0.9523 -0.3051
  -0.3051 0.9523
SI Eigenvalues Matrix:
   0.0005 0
      0 0.6500
SI Correlation Matrix:
    1 -1
   -1
         1
Recovered sensivity matrix:
   0.0831 0.2797
          0.3406
   0.2389
   0.4046 0.3346
   0.5614 0.3099
Column 1 norm = 0.7367994
Column 2 norm = 0.6342198
SR Eigenvectors Matrix:
   0.6452 -0.7640
  -0.7640 -0.6452
SR Eigenvalues Matrix:
   0.0526 0
     0 0.8925
SR Correlation Matrix:
    1 1
    1
Infected and recovered sensitivity matrix:
   0.1092 -0.2963
   0.0831 0.2797
   0.1328 -0.3884
          0.3406
   0.2389
   0.1301 -0.4155
           0.3346
   0.4046
   0.1202 -0.4222
   0.5614
          0.3099
Column 1 norm = 0.7770445
Column 2 norm = 0.9958852
```

```
SIR Eigenvectors Matrix:
  -0.9090 0.4168
   0.4168 0.9090
SIR Eigenvalues Matrix:
   0.5005
       0 1.0951
SIR Correlation Matrix:
    1 -1
   -1
        1
Complete sensitivity matrix:
   0.1092 -0.2963
   0.0831 0.2797
  -0.1923 0.0166
   0.1328 -0.3884
   0.2389 0.3406
  -0.3717
          0.0478
   0.1301 -0.4155
   0.4046 0.3346
  -0.5347 0.0809
   0.1202 -0.4222
   0.5614 0.3099
  -0.6816 0.1123
Column 1 norm = 1.2367091
Column 2 norm = 1.0067284
SIRS Eigenvectors Matrix:
   0.1577 -0.9875
  -0.9875 -0.1577
SIRS Eigenvalues Matrix:
   1.0000 0
      0 1.5429
SIRS Correlation Matrix:
   1 -1
   -1
        1
>> Influenza
Uninfected cells sensivity matrix:
  -0.7941 0.0002 -0.0023 0.0025
  -1.5808 0.0010 -0.0054 0.0063
  -2.3599 0.0021 -0.0082
                            0.0102
  -3.1315 0.0034 -0.0107
                            0.0141
ST Eigenvectors Matrix:
   0.0000 0.0031 -0.0047 -1.0000
   0.5769 -0.5736 -0.5816 0.0009
  -0.5771 -0.7901 0.2068 -0.0034
  -0.5781 0.2163 -0.7868 0.0043
```

ST Eigenvalue: -0.0000 0 0	0	0 0 0 0 000 0 0 18.5059
Column 4 norm ST Correlation 1.0000	= 0.0041446 = 0.0146868 = 0.0187286 h Matrix: -1.0000 1.0	
1.0000	1.0000 -1.0 -1.0000 1.0 1.0000 -1.0	000 -1.0000
0.5899 0.8995 1.0592	s sensivity ma -0.7431 -0.7 -1.1414 -1.1 -1.3549 -1.3 -1.4693 -1.4	411 -0.0020 374 -0.0039 498 -0.0050
0.5554	0.0533 -0.8 -0.4161 -0.3 0.4622 -0.3	0.6197 170 0.6175
SI Eigenvalue: 0.0000 0 0 0	0	0 0 0 0 002 0 0 15.2329
Column 1 norm Column 2 norm Column 3 norm Column 4 norm SI Correlation	= 2.4186075 = 2.4098986 = 0.0086714	
-1.0000 -1.0000	-1.0000 -1.0 1.0000 1.0 1.0000 1.0 1.0000 1.0	000 1.0000 000 1.0000
0.0784 0.0998	-0.0502 0.3 -0.0992 0.2	981 -0.3966 727 -0.3992
	rs Matrix: 0.8464 -0.5 0.4342 0.6	

	0.2160 0.2201		
SV Eigenvalue 0.0000 0 0 0	0.0000	0 0 0.0102 0	0 0 0 1.0090
Column 1 norm Column 2 norm Column 3 norm Column 4 norm SV Correlatio	= 0.22110 = 0.57444 = 0.78123	055 438 183	-0.9996
-1.0000 0.9993 -0.9996	1.0000 -0.9993	-0.9993 1.0000	
0.5899 -1.5808 0.8995 -2.3599 1.0592 -3.1315	0.0002	-0.0023 -0.7411 -0.0054 -1.1374 -0.0082 -1.3498 -0.0107	0.0025 -0.0020 0.0063 -0.0039 0.0102 -0.0050 0.0141
	0.0053	-0.4301 -0.6375 -0.6392	0.3061 0.3021
STI Eigenvalu 0.0000 0 0 0	es Matrix: 0 0.0000 0	0 0 0 8.5971 0	0 0 0 25.1419
Column 1 norm Column 2 norm Column 3 norm Column 4 norm STI Correlati	= 2.41863 = 2.40994 = 0.02063	110 433 387	-1.0000
-0.9178 -0.9160	1.0000	1.0000 1.0000 0.9185	0.9202 0.9185
Uninfected + -0.7941			

0.0399 -1.5808 0.0784 -2.3599 0.0998 -3.1315 0.1108	0.0021 -0.1273 0.0034 -0.1425	0.2981 -0.0082 0.2727 -0.0107 0.2577	0.0102 -0.3992 0.0141
0.0000 -0.5770 0.5769	0.0001 -0.7887 -0.5775 -0.2109	0.0152 0.2122 -0.5775	0.0032 -0.0088
0.0000	0 0.0075 0 0	0	0 0 0 18.5394
Column 2 no Column 3 no Column 4 no STI Correla 1.0000 -0.3705 0.3584	orm = 4.3052 orm = 0.2211 orm = 0.5746 orm = 0.7814 ation Matrix -0.3705 1.0000 -0.9998 0.9999	444 315 427 : 0.3584 -0.9998 1.0000	0.9999 -1.0000
0.5899 0.0399 0.8995 0.0784 1.0592 0.0998 1.1388 0.1108	-1.1414 -0.0992 -1.3549 -0.1273 -1.4693 -0.1425	-0.7411 0.3168 -1.1374 0.2981 -1.3498 0.2727 -1.4638 0.2577	-0.0020 -0.3662 -0.0039 -0.3966 -0.0050 -0.3992 -0.0056
-0.0013 -0.5776	0.2200	-0.2395 0.3055 -0.4817	0.4822 -0.6168 -0.6222 0.0054
SIV Eigenva 0.0000 0 0	0 0.0002 0 0	0 0 0.9881 0	0 0 0 15.2640

Column 1 norm = 1.8988778

```
Column 2 norm = 2.4286930
Column 3 norm = 2.4774174
Column 4 norm = 0.7812664
SIV Correlation Matrix:
   1.0000 -1.0000 -0.9962
                            0.1406
  -1.0000 1.0000 0.9962 -0.1407
  -0.9962 0.9962 1.0000 -0.2259
   0.1406 -0.1407 -0.2259
                            1.0000
Mixed sensivity matrix:
  -0.7941 0.0002 -0.0023 0.0025
   0.5899 -0.7431 -0.7411 -0.0020
   0.0399 -0.0502 0.3168 -0.3662
  -1.5808
          0.0010 -0.0054
                            0.0063
   0.8995 -1.1414 -1.1374 -0.0039
   0.0784 -0.0992 0.2981 -0.3966
  -2.3599 0.0021 -0.0082 0.0102
   1.0592 -1.3549 -1.3498 -0.0050
   0.0998 -0.1273 0.2727 -0.3992
  -3.1315
          0.0034 -0.0107
                            0.0141
   1.1388 -1.4693 -1.4638 -0.0056
   0.1108 -0.1425 0.2577 -0.3995
STIV Eigenvectors Matrix:
   0.0000 -0.0229 0.4290 -0.9030
  -0.5770 -0.4315
                   0.6221
                            0.3065
   0.5770
          0.3854
                   0.6542 0.3010
   0.5781 -0.8153 -0.0321 0.0054
STIV Eigenvalues Matrix:
   0.0000
         0
                       0
                                0
                      0
       0
           0.9042
                                 0
       0
               0 8.7031
       Ω
                Ω
                       0
                            25.1509
Column 1 norm = 4.7022444
Column 2 norm = 2.4286966
Column 3 norm = 2.4774609
Column 4 norm = 0.7814909
STIV Correlation Matrix:
  1.0000 -0.9230 -0.8903 -0.2614
           1.0000
  -0.9230
                   0.9959 -0.0616
  -0.8903 0.9959
                   1.0000 -0.1517
  -0.2614 -0.0616 -0.1517 1.0000
>> HIV
Uninfected cells sensivity matrix:
   0.7419 -0.0009 -0.0012 -0.0090
                                    -0.3711 -0.3709 -0.3725 -0.0041 ∠
-0.0039
   1.4676 -0.0036 -0.0048 -0.0452
                                    -0.7350 -0.7350 -0.7442
                                                              -0.0208 ∠
-0.0202
   2.1772 -0.0084 -0.0114 -0.1312 -1.0919 -1.0924 -1.1210 -0.0614 \checkmark
-0.0599
```

2.8701 -0.1433	-0.0158	-0.0216	-0.3082	-1.4418	-1.4434	-1.5130	-0.1462 Ľ
Column 1 no Column 2 no Column 3 no Column 4 no Column 5 no Column 6 no Column 7 no Column 8 no Column 9 no	rm = 0.018 rm = 0.024 rm = 0.338 rm = 1.987 rm = 1.988 rm = 2.058 rm = 0.160 rm = 0.156	2803 8769 1145 1603 5893 7281 0097					
ST Eigenvec 0.2456			0.2616	0.3760	0.0303	-0.2263	0.1267 Ľ
-0.7488 -0.2076 0.0033	0.2731	-0.3432	0.4520	-0.2809	0.4758	-0.5038	0.0325 r
	0.1626	0.1146	-0.3815	-0.1737	-0.5352	-0.6977	0.0444 🗸
0.0360 0.0595	-0.3967	-0.0831	-0.2782	0.0433	0.2784	-0.1313	0.8105 ⊭
	0.1431	0.5709	-0.0074	-0.2187	0.3162	-0.1393	-0.0470 Ľ
0.4511	-0.0153	-0.4372	0.1825	0.5800	-0.1909	-0.2364	-0.0410 Ľ
0.3760 -0.5458	-0.0136	0.4925	0.3493	0.3926	-0.0651	-0.0728	0.1490 ∠
0.3893	-0.0454	-0.0113	0.5625	-0.4324	-0.5177	0.1812	0.3890 Ľ
0.0281 -0.0027 0.0275	0.8458	-0.0685	-0.1804	0.1496	-0.0080	0.2783	0.3830 ⊭
ST Eigenval							
-0.0000 0	0	0	0	0	0	0	0 r
0	-0.0000	0	0	0	0	0	0 r
0	0	-0.0000	0	0	0	0	0 🗷
0	0	0	0.0000	0	0	0	0 r
0	0	0	0	0.0000	0	0	0 r
0	0	0	0	0	0.0000	0	0 r
0	0	0	0	0	0	0.0000	0 r
0	0	0	0	0	0	0	0.0234 r
0	0	0	0	0	0	0	0 r
27.9656							

ST Correlation Matrix:

1.0000	-1.0000	-1.0000	-1.0000	-1.0000	-1.0000	-1.0000	-1.0000 Ľ
-1.0000 -1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000 ⊭
1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000 -
-1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000 ⊭
1.0000							
-1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000 ⊭
1.0000	1 0000	1 0000	1 0000	1 0000	1 0000	1 0000	1 0000
-1.0000 1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000 ⊭
-1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000 ⊭
1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000 -
-1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000 ⊭
1.0000							
-1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000 ⊭
1.0000	1 0000	1 0000	1 0000	1 0000	1 0000	1 0000	1 0000
-1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000 ⊭
1.0000							
Mutant-infec	ted cells	sensivity	matrix:				
0.0027	0.7503	-0.0009	0.0022	0.3738	-0.0018	0.0928	-0.3734 Ľ
0.0015							
0.0106	1.5027	-0.0034	0.0113	0.7460	-0.0070	0.1846	-0.7444 Ľ
0.0073	0 0570	0 0070	0 0006	1 1166	0 0157	0.0760	1 1100 4
0.0238 0.0202	2.2570	-0.0078	0.0326	1.1166	-0.0157	0.2769	-1.1103 Ľ
0.0202	3.0136	-0.0138	0.0764	1.4857	-0.0280	0.3723	-1.4660 Ľ
0.0451	3.0130	0.0130	0.0701	1.1007	0.0200	0.3723	1.1000 -
Column 1 nor	rm = 0.049	6531					
Column 2 nor							
Column 3 nor							
Column 4 nor							
Column 6 nor							
Column 7 nor							
Column 8 nor							
Column 9 nor	m = 0.0500	0059					
STm Eigenvec							
	-0.0140	0.2609	0.4255	0.3361	0.3807	0.6327	-0.2936 ⊭
0.0095 0.3183	0.3573	-0.0513	-0.0141	-0.2555	0.0764	0.0856	-0.1517 ∠
0.3163	0.3373	-0.0313	-0.0141	-0.2333	0.0764	0.0036	-0.131/ k
-0.2997	0.2399	0.0089	-0.4285	0.0782	0.7796	-0.2136	0.0968 ⊭
-0.0031							
0.0442	-0.4956	-0.1981	-0.0147	-0.1453	0.1895	-0.2998	-0.7522 ⊭
0.0155							
-0.0831	-0.1606	-0.1768	0.0099	0.8210	-0.1394	-0.2732	0.0708 ⊭
0.4035	0 1401	0 0104	0 7040	O 1 E //	0 2270	0 4225	0 1040 4
-0.1137 -0.0063	0.1421	-0.2104	0.7942	-0.1344	0.2270	-0.4225	0.1949 ⊭
0.0457	-0.0529	0.9008	0.0643	-0.0008	-0.0459	-0.4061	-0.0485 Ľ
0.1006							

0.5659	0.5417	-0.0546	-0.0023	0.3104	0.0020	-0.1922	-0.3004 Ľ
-0.3998 -0.6771 0.0093	0.4761	0.0006	-0.0002	-0.0193	-0.3640	-0.0427	-0.4244 Ľ
STm Eigenval	lues Matri: 0	x: 0	0	0	0	0	0 r
0 0	-0.0000	0	0	0	0	0	0 r
0	-0.0000	O	O	O	O	O	0 =
0	0	-0.0000	0	0	0	0	0 r
0	0	0	0.0000	0	0	0	0 r
0	0	0	0	0.0000	0	0	0 r
0	0	0	0	0	0.0000	0	0 r
0 0	0	0	0	0	0	0.0000	0 r
0 0	0	0	0	0	0	0	0.0016 ⊭
0							
0 25.4927	0	0	0	0	0	0	0 r
STm Correlat	tion Matri	v•					
1.0000	1.0000	-1.0000	1.0000	1.0000	-1.0000	1.0000	-1.0000 ¥
1.0000	1.0000	-1.0000	1.0000	1.0000	-1.0000	1.0000	-1.0000 Ľ
1.0000 -1.0000	-1.0000	1.0000	-1.0000	-1.0000	1.0000	-1.0000	1.0000 ⊭
-1.0000 1.0000	1.0000	-1.0000	1.0000	1.0000	-1.0000	1.0000	-1.0000 Ľ
1.0000							
1.0000	1.0000	-1.0000	1.0000	1.0000	-1.0000	1.0000	-1.0000 Ľ
-1.0000	-1.0000	1.0000	-1.0000	-1.0000	1.0000	-1.0000	1.0000 ⊭
-1.0000 1.0000	1.0000	-1.0000	1.0000	1.0000	-1.0000	1.0000	-1.0000 Ľ
1.0000 -1.0000	-1.0000	1.0000	-1.0000	-1.0000	1.0000	-1.0000	1.0000 ⊭
-1.0000							
1.0000 1.0000	1.0000	-1.0000	1.0000	1.0000	-1.0000	1.0000	-1.0000 Ľ
Wild type in	nfected ce	lls sensiv	ity matrix:				
0.0030	-0.0026	0.7667	_	-0.0028	0.3819	0.0945	0.0024 Ľ
-0.3819 0.0120	-0.0104	1.5706	0.0115	-0.0112	0.7793	0.1917	0.0109 Ľ
-0.7789							
0.0273 -1.1889	-0.0237	2.4134	0.0336	-0.0255	1.1931	0.2932	0.0287 ⊭
0.0493	-0.0426	3.2973	0.0795	-0.0459	1.6241	0.4018	0.0610 Ľ

-1.6076

Column 1 nor Column 2 nor Column 4 nor Column 5 nor Column 6 nor Column 7 nor Column 8 nor Column 9 nor Column 9 nor	cm = 0.0499 cm = 4.4442 cm = 0.0873 cm = 0.0533 cm = 2.1943 cm = 0.5413 cm = 0.0683	9370 2795 1162 7846 1294 3811					
STw Eigenvec							
0.0857	0.4464	0.3794	-0.2328	0.0820	-0.5432	-0.4546	-0.2944 Ľ
-0.0103	0 0110	0 4006	0 1050	0.000	0 6061	0 4045	0.0544.4
-0.1711 0.0089	0.2118	-0.4386	0.1053	0.2986	-0.6361	0.4047	0.2544 Ľ
-0.3577 -0.8165	-0.2521	-0.0023	0.0222	-0.2833	-0.2016	-0.0294	-0.1400 v
0.4939	-0.2486	0.0002	0.0987	0.0538	-0.1636	0.4427	-0.6773 Ľ
-0.0150 -0.1357	-0.1036	0.8145	0.1524	0.1265	-0.0920	0.4294	0.2743 Ľ
0.0096 0.3172	0.7127	0.0104	0.2770	-0.1207	0.2943	0.2124	0.0772 r
-0.4031							
-0.0585 -0.0995	0.1364	-0.0080	-0.8903	0.0154	0.1661	0.3840	-0.0082 Ľ
-0.0995	0.1853	0.0003	0.1485	0.5676	0.3251	0.0190	-0.4656 ∠
-0.0120 -0.4131	0.2427	0.0038	0.0991	-0.6841	-0.0675	0.2354	-0.2689 ⊭
0.4004	0.12.	3,3333	0.0331	0.0011	0.00,0	0,2001	0.2003
STw Eigenval	ues Matris	₹•					
-0.0000	0	0	0	0	0	0	0 🗹
0							
0	-0.0000	0	0	0	0	0	0 🗷
0	0	0.000	0		0		0
0	0	0.0000	0	0	0	0	0 K
0	0	0	0.0000	0	0	0	0 r
0	0	0	0	0 0000	0	0	0.14
0	0	0	0	0.0000	0	0	0 r
0	0	0	0	0	0.0000	0	0 r
0							
0	0	0	0	0	0	0.0000	0 r
0	0	0	0	0	0	0	0.0020 Ľ
0	Ŭ	Ŭ	Ŭ	O .	Ü	O	0.0020 -
0 29.6281	0	0	0	0	0	0	0 🗷
STw Correlat			4 2225	4 2225	4 0005	4 0000	4 0000
1.0000	-1.0000	1.0000	1.0000	-1.0000	1.0000	1.0000	1.0000 ⊭

-1.0000 -1.0000	1.0000	-1.0000	-1.0000	1.0000	-1.0000	-1.0000	-1.0000 Ľ
1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
1.0000	-1.0000	1.0000	1.0000	-1.0000	1.0000	1.0000	1.0000 ⊭
-1.0000 1.0000	-1.0000	1.0000	1.0000	-1.0000	1.0000	1.0000	1.0000 ⊭
-1.0000							
-1.0000	1.0000	-1.0000	-1.0000	1.0000	-1.0000	-1.0000	-1.0000 Ľ
1.0000	-1.0000	1.0000	1.0000	-1.0000	1.0000	1.0000	1.0000 ⊭
-1.0000	_,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	_,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	_,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	_,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	_,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		_,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
1.0000 -1.0000	-1.0000	1.0000	1.0000	-1.0000	1.0000	1.0000	1.0000 ⊭
1.0000	-1.0000	1.0000	1.0000	-1.0000	1.0000	1.0000	1.0000 ⊭
-1.0000							
-1.0000	1.0000	-1.0000	-1.0000	1.0000	-1.0000	-1.0000	-1.0000 Ľ
1.0000							
Mutant and w	vt infected	d cells se	nsivity mat	trix:			
0.0045			1.0308		-0.0001	0.2566	0.5135 ⊭
0.5135	0 0010	0 0017	2 0260	0 0000	0 0005	0 7050	1 4524 1
0.0228 1.4531	0.0210	0.0217	2.9269	-0.0009	-0.0005	0.7258	1.4534 ⊭
0.0663	0.0612	0.0638	6.4154	-0.0025	-0.0012	1.5866	3.1779 ∠
3.1766	0 1440	0 1510	10 0000	0.0050	0.0000	2 1660	6 2441 .
0.1561 6.3403	0.1442	0.1518	12.8309	-0.0059	-0.0020	3.1668	6.3441 ∠
0.0100							
Column 1 noi	cm = 0.1712	2046					
Column 2 noi							
Column 3 noi							
Column 4 noi							
Column 5 non							
Column 7 noi							
Column 8 noi							
Column 9 noi							
STmw Eigenve	ectors Mat	rix:					
-0.1046	0.0916	-0.5411	-0.1046	0.4606	0.0812	0.3890	0.5539 ⊭
0.0093 -0.0999	0.1029	0.7560	0.0649	-0.0743	0.0692	0.3625	0.5117 Ľ
0.0086	0.1025	0.7300	0.0019	0.0713	0.0032	0.3023	0.0117
0.2237	-0.1723	-0.1568	0.0081	-0.3945	-0.5640	-0.3284	0.5603 ⊭
0.0090	0 0016	0.0027	0 0000	0 0007	0.4212	0 2756	0.1914 Ľ
0.0007	0.0016	0.0027	-0.0008	-0.0007	0.4212	-0.3756	0.1914 2
0.0043	-0.0060	0.1013	-0.9923	-0.0665	-0.0050	-0.0139	-0.0208 Ľ
-0.0004	0 1000	0 0150	0 0104	0 7000	0 2010	0 2526	0 0000
0.1669 -0.0001	-0.1300	0.3172	-0.0124	0.7888	-0.3218	-0.3586	0.0037 ⊭
0.1008	0.9104	-0.0142	-0.0028	-0.0002	-0.3334	0.0022	-0.1018 r
0.1983							
-0.6928	-0.2115	-0.0007	0.0012	0.0025	-0.4961	0.2022	-0.1743 ∠

0.3973 0.6411 0.3971	-0.2467	0.0023	0.0019	-0.0010	-0.1796	0.5466	-0.1987 ⊭
STmw Eigenva	alues Matr	ix:					
-0.0000	0	0	0	0	0	0	0 r
0	0.0000		0	0	0	0	0.4
0	-0.0000	0	0	0	0	0	0 🗷
0	0	-0.0000	0	0	0	0	0 r
0							
0	0	0	0.0000	0	0	0	0 K
0	0	0	0	0 0000	0	0	0 14
0	0	U	0	0.0000	0	0	0 🗷
0	0	0	0	0	0.0000	0	0 r
0							
0	0	0	0	0	0	0.0000	0 K
0	0	0	0	0	0	0	0.0010 ⊭
0	0	0	0	0	0	U	0.0010 2
0	0	0	0	0	0	0	0 r
334.0251							
_							
STmw Correla	ation Matr: 1.0000	ix: 1.0000	1.0000	-1.0000	-1.0000	1.0000	1.0000 ⊭
1.0000	1.0000	1.0000	1.0000	-1.0000	-1.0000	1.0000	1.0000 2
1.0000	1.0000	1.0000	1.0000	-1.0000	-1.0000	1.0000	1.0000 ⊭
1.0000							
1.0000	1.0000	1.0000	1.0000	-1.0000	-1.0000	1.0000	1.0000 ⊭
1.0000	1.0000	1.0000	1.0000	-1.0000	-1.0000	1.0000	1.0000 ⊭
1.0000	1.0000	1.0000	1.0000	-1.0000	-1.0000	1.0000	1.0000 €
-1.0000	-1.0000	-1.0000	-1.0000	1.0000	1.0000	-1.0000	-1.0000 Ľ
-1.0000							
-1.0000	-1.0000	-1.0000	-1.0000	1.0000	1.0000	-1.0000	-1.0000 ⊭
-1.0000 1.0000	1.0000	1.0000	1.0000	-1.0000	-1.0000	1.0000	1.0000 ⊭
1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000 2
1.0000	1.0000	1.0000	1.0000	-1.0000	-1.0000	1.0000	1.0000 ⊭
1.0000							
1.0000	1.0000	1.0000	1.0000	-1.0000	-1.0000	1.0000	1.0000 ⊭
1.0000							
Mixed sensit	tivity mat:	rix:					
0.7419	-0.0009	-0.0012	-0.0090	-0.3711	-0.3709	-0.3725	-0.0041 Ľ
-0.0039							
0.0027	0.7503	-0.0009	0.0022	0.3738	-0.0018	0.0928	-0.3734 ∠
0.0015	-0.0026	0.7667	0.0023	-0.0028	0.3819	0.0945	0.0024 Ľ
-0.3819	0.0020	J. 7007	0.0025	3.0020	0.0019	0.0010	0.0021
0.0045	0.0042	0.0042	1.0308	-0.0002	-0.0001	0.2566	0.5135 Ľ
0.5135							

1 4676	0.0006	0.0040	0.0450	0 7050	0 7050	0 7440	0.0000
1.4676 -0.0202	-0.0036	-0.0048	-0.0452	-0.7350	-0./350	-0.7442	-0.0208 Ľ
0.0106	1.5027	-0.0034	0.0113	0.7460	-0.0070	0.1846	-0.7444 Ľ
0.0073 0.0120	-0.0104	1.5706	0.0115	-0.0112	0.7793	0.1917	0.0109 Ľ
-0.7789 0.0228	0.0210	0 0217	2.9269	-0.0009	-0.0005	0.7258	1.4534 ⊭
1.4531	0.0210	0.0217	2.9209	0.0003	0.0003	0.7230	1.4554 =
2.1772 -0.0599	-0.0084	-0.0114	-0.1312	-1.0919	-1.0924	-1.1210	-0.0614 Ľ
0.0238	2.2570	-0.0078	0.0326	1.1166	-0.0157	0.2769	-1.1103 Ľ
0.0202 0.0273	-0.0237	2.4134	0.0336	-0.0255	1.1931	0.2932	0.0287 Ľ
-1.1889 0.0663	0.0612	0.0638	6.4154	-0.0025	-0.0012	1.5866	3.1779 ⊭
3.1766	0.0012	0.0000	0.1101	0.0020	0.0011	1.0000	3,17,7
2.8701 -0.1433	-0.0158	-0.0216	-0.3082	-1.4418	-1.4434	-1.5130	-0.1462 Ľ
0.0422	3.0136	-0.0138	0.0764	1.4857	-0.0280	0.3723	-1.4660 Ľ
0.0451 0.0493	-0.0426	3.2973	0.0795	-0.0459	1.6241	0.4018	0.0610 ⊭
-1.6076 0.1561	0 1442	0 1518	12 8309	-0.0059	-0 0020	3 1668	6.3441 ∠
6.3403	0.1442	0.1510	12.0309	-0.0039	-0.0020	3.1000	0.3441 2
Column 1 no:	rm = 3.9644	4729					
Column 2 no: Column 3 no: Column 4 no: Column 5 no: Column 6 no: Column 7 no: Column 8 no: Column 9 no: SS Eigenvect	rm = 4.1263 rm = 4.4474 rm = 14.683 rm = 2.8464 rm = 2.9613 rm = 4.2343 rm = 7.5384 rm = 7.5790	1015 4825 14939 4525 3815 1701 4898					
Column 2 nor Column 3 nor Column 4 nor Column 5 nor Column 6 nor Column 7 nor Column 8 nor Column 9 nor SS Eigenvect -0.0144	rm = 4.1263 rm = 4.4474 rm = 14.683 rm = 2.8464 rm = 2.9613 rm = 4.2343 rm = 7.5384 rm = 7.5790 tors Matrix	1015 4825 14939 4525 3815 1701 4898 0718	0.2297	0.1578	0.6133	-0.2042	0.4596 ⊭
Column 2 nor Column 3 nor Column 5 nor Column 6 nor Column 7 nor Column 8 nor Column 9 nor SS Eigenvect -0.0144 -0.0002 0.0188	rm = 4.1263 rm = 4.4474 rm = 14.683 rm = 2.8464 rm = 2.9613 rm = 4.2343 rm = 7.5384 rm = 7.5790 tors Matrix	1015 4825 14939 4525 3815 1701 4898 0718		0.1578	0.6133	-0.2042 0.5648	0.4596 ⊭ -0.2187 ⊭
Column 2 nor Column 3 nor Column 4 nor Column 5 nor Column 6 nor Column 7 nor Column 8 nor Column 9 nor SS Eigenvect -0.0144 -0.0002 0.0188 0.0011 -0.0047	rm = 4.1263 rm = 4.4474 rm = 14.683 rm = 2.8464 rm = 2.9613 rm = 4.2343 rm = 7.5384 rm = 7.5790 tors Matrix -0.0148	1015 4825 14939 4525 3815 1701 4898 0718 x: -0.5412					
Column 2 nor Column 3 nor Column 5 nor Column 6 nor Column 7 nor Column 8 nor Column 9 nor Colum	rm = 4.1263 rm = 4.4474 rm = 14.683 rm = 2.8464 rm = 2.9613 rm = 4.2343 rm = 7.5384 rm = 7.5790 tors Matrix -0.0148	1015 4825 14939 4525 3815 1701 4898 0718 *: -0.5412	0.2603	0.2039	0.5819	0.5648	-0.2187 v
Column 2 nor Column 3 nor Column 4 nor Column 5 nor Column 6 nor Column 7 nor Column 8 nor Column 9 nor SS Eigenvect -0.0144 -0.0002	rm = 4.1267 rm = 4.4474 rm = 14.683 rm = 2.8464 rm = 2.9613 rm = 4.2343 rm = 7.5790 tors Matrix -0.0148 0.0055 0.0087 0.0007	1015 4825 14939 4525 3815 1701 4898 0718 x: -0.5412 0.4299 0.1114 0.0005	0.2603 -0.4907 0.0001	0.2039 0.2036 -0.5663	0.5819 0.4128 0.1875	0.5648 -0.5458 -0.0144	-0.2187 \(\begin{align*} -0.4867 \(\begin{align*} \dots \\ \dots \\ -0.0613 \(\begin{align*} \dots \\ \dots \\ \dots \end{align*} \end{align*}
Column 2 nor Column 3 nor Column 4 nor Column 5 nor Column 6 nor Column 7 nor Column 9 nor Colum	rm = 4.1263 rm = 4.4474 rm = 14.683 rm = 2.8464 rm = 2.9613 rm = 4.2343 rm = 7.5384 rm = 7.5790 tors Matrix -0.0148 0.0055 0.0087	1015 4825 14939 4525 3815 1701 4898 0718 x: -0.5412 0.4299 0.1114	0.2603 -0.4907 0.0001 -0.2085	0.2039 0.2036 -0.5663 0.0217	0.5819 0.4128 0.1875	0.5648	-0.2187 ⊭ -0.4867 ⊭
Column 2 nor Column 3 nor Column 4 nor Column 5 nor Column 6 nor Column 7 nor Column 8 nor Column 9 nor SS Eigenvect -0.0144 -0.0002	rm = 4.1267 rm = 4.4474 rm = 14.683 rm = 2.8464 rm = 2.9613 rm = 4.2343 rm = 7.5790 tors Matrix -0.0148 0.0055 0.0087 0.0007	1015 4825 14939 4525 3815 1701 4898 0718 x: -0.5412 0.4299 0.1114 0.0005	0.2603 -0.4907 0.0001 -0.2085	0.2039 0.2036 -0.5663	0.5819 0.4128 0.1875	0.5648 -0.5458 -0.0144	-0.2187 \(\begin{align*} -0.4867 \(\begin{align*} \dots \\ \dots \\ -0.0613 \(\begin{align*} \dots \\ \dots \\ \dots \end{align*} \end{align*}
Column 2 nor Column 3 nor Column 4 nor Column 5 nor Column 7 nor Column 8 nor Column 9 nor Colum	rm = 4.1263 rm = 4.4474 rm = 14.683 rm = 2.8464 rm = 2.9613 rm = 4.2343 rm = 7.5384 rm = 7.5790 tors Matrix -0.0148 0.0055 0.0087 0.0007 -0.1863	1015 4825 14939 4525 3815 1701 4898 0718 x: -0.5412 0.4299 0.1114 0.0005 -0.5106	0.2603 -0.4907 0.0001 -0.2085	0.2039 0.2036 -0.5663 0.0217	0.5819 0.4128 0.1875 -0.0154 -0.0997	0.5648 -0.5458 -0.0144 0.3844	-0.2187 \(\begin{align*} -0.2187 \(\begin{align*} \cdot -0.4867 \(\begin{align*} \cdot -0.0613 \(\begin{align*} \cdot -0.3389 \(\begin{align*} \cdot \cdot -0.3389 \(\begin{align*} \cdot \cdot -0.3389 \(\begin{align*} \cdot \cdot \cdot -0.3389 \(\begin{align*} \cdot \cdot -0.3389 \(\begin{align*} \cdot \cdot -0.3389 \(\begin{align*} \cdot \cdot \cdot \cdot -0.3389 \(\begin{align*} \cdot \cdot \cdot -0.33889 \(\begin{align*} \cdot \cdot \cdot -0.33889 \(\begin{align*} \cdot \cdo
Column 2 nor Column 3 nor Column 4 nor Column 5 nor Column 6 nor Column 7 nor Column 8 nor Column 9 nor SS Eigenvect -0.0144 -0.0002	rm = 4.1263 rm = 4.4474 rm = 14.683 rm = 2.8464 rm = 2.9613 rm = 4.2343 rm = 7.5790 tors Matrix -0.0148 0.0055 0.0087 0.0007 -0.1863 -0.5614 0.7188	1015 4825 14939 4525 3815 1701 4898 0718 x: -0.5412 0.4299 0.1114 0.0005 -0.5106 -0.2148	0.2603 -0.4907 0.0001 -0.2085 0.5226 0.1463	0.2039 0.2036 -0.5663 0.0217 0.0221 0.2726	0.5819 0.4128 0.1875 -0.0154 -0.0997 -0.1348	0.5648 -0.5458 -0.0144 0.3844 -0.1710	-0.2187 \(\mu \) -0.4867 \(\mu \) -0.0613 \(\mu \) -0.3389 \(\mu \) -0.4728 \(\mu \) -0.3326 \(\mu \)
Column 2 nor Column 3 nor Column 4 nor Column 5 nor Column 6 nor Column 7 nor Column 9 nor Colum	rm = 4.1263 rm = 4.4474 rm = 14.683 rm = 2.8464 rm = 2.9613 rm = 4.2343 rm = 7.5790 tors Matrix -0.0148 0.0055 0.0087 0.0007 -0.1863 -0.5614 0.7188	1015 4825 14939 4525 3815 1701 4898 0718 x: -0.5412 0.4299 0.1114 0.0005 -0.5106 -0.2148 -0.3588 0.2600	0.2603 -0.4907 0.0001 -0.2085 0.5226 0.1463	0.2039 0.2036 -0.5663 0.0217 0.0221 0.2726 0.4984	0.5819 0.4128 0.1875 -0.0154 -0.0997 -0.1348 -0.1967	0.5648 -0.5458 -0.0144 0.3844 -0.1710 0.1005	-0.2187 \(\mu \) -0.4867 \(\mu \) -0.0613 \(\mu \) -0.3389 \(\mu \) -0.4728 \(\mu \) -0.3326 \(\mu \) 0.0785 \(\mu \)

SS Eigenval	ues Matrix	:					
-0.0000	0	0	0	0	0	0	0 🗷
0	-0.0000	0	0	0	0	0	0 Ľ
0	0.0000	O	O	O	O	O	0 -
0	0	0.0000	0	0	0	0	0 🗷
0	0	0	0 0000	0	0	0	0.14
0	0	0	0.0000	0	0	0	0 ⊾
0	0	0	0	0.0000	0	0	0 🗷
0							
0	0	0	0	0	19.1945	0	0 🗷
0	0	0	0	0	0	27.7819	0 🗷
0							
0	0	0	0	0	0	0	34.7506 ⊭
0	0	0	0	0	0	0	0 r
335.4125							
~~ ~ 1 .							
SS Correlat			0.0562	-0.7857	-0.7432	-0.1555	0.0692 k
SS Correlat 1.0000 0.0710	ion Matrix -0.1696	: -0.1677	0.0562	-0.7857	-0.7432	-0.1555	0.0692 r
1.0000 0.0710 -0.1696			0.0562	-0.7857 0.7429	-0.7432 -0.0517	-0.1555 -0.2347	0.0692 ∠ -0.3738 ∠
1.0000 0.0710 -0.1696 -0.2620	-0.1696 1.0000	-0.1677 -0.2335	-0.2959	0.7429	-0.0517	-0.2347	-0.3738 Ľ
1.0000 0.0710 -0.1696 -0.2620 -0.1677	-0.1696	-0.1677					
1.0000 0.0710 -0.1696 -0.2620	-0.1696 1.0000	-0.1677 -0.2335	-0.2959	0.7429	-0.0517	-0.2347	-0.3738 Ľ
1.0000 0.0710 -0.1696 -0.2620 -0.1677 -0.3963 0.0562 0.9954	-0.1696 1.0000 -0.2335 -0.2959	-0.1677 -0.2335 1.0000 -0.3068	-0.2959 -0.3068 1.0000	0.7429 -0.0326 -0.2239	-0.0517 0.7842 -0.2436	-0.2347 -0.2368 0.9762	-0.3738 ⊭ -0.2777 ⊭ 0.9966 ⊭
1.0000 0.0710 -0.1696 -0.2620 -0.1677 -0.3963 0.0562 0.9954 -0.7857	-0.1696 1.0000 -0.2335	-0.1677 -0.2335 1.0000	-0.2959 -0.3068	0.7429	-0.0517 0.7842	-0.2347 -0.2368	-0.3738 ⊭ -0.2777 ⊭
1.0000 0.0710 -0.1696 -0.2620 -0.1677 -0.3963 0.0562 0.9954	-0.1696 1.0000 -0.2335 -0.2959	-0.1677 -0.2335 1.0000 -0.3068	-0.2959 -0.3068 1.0000	0.7429 -0.0326 -0.2239	-0.0517 0.7842 -0.2436	-0.2347 -0.2368 0.9762	-0.3738 ⊭ -0.2777 ⊭ 0.9966 ⊭
1.0000 0.0710 -0.1696 -0.2620 -0.1677 -0.3963 0.0562 0.9954 -0.7857 -0.2127 -0.7432 -0.3136	-0.1696 1.0000 -0.2335 -0.2959 0.7429 -0.0517	-0.1677 -0.2335 1.0000 -0.3068 -0.0326 0.7842	-0.2959 -0.3068 1.0000 -0.2239 -0.2436	0.7429 -0.0326 -0.2239 1.0000 0.4724	-0.0517 0.7842 -0.2436 0.4724 1.0000	-0.2347 -0.2368 0.9762 -0.0417 -0.0628	-0.3738 \(\begin{align*} -0.2777 \(\begin{align*} 0.9966 \(\begin{align*} \equiv \) -0.2817 \(\begin{align*} \equiv \) -0.2320 \(\begin{align*} \equiv \equiv \]
1.0000 0.0710	-0.1696 1.0000 -0.2335 -0.2959 0.7429 -0.0517	-0.1677 -0.2335 1.0000 -0.3068 -0.0326 0.7842	-0.2959 -0.3068 1.0000 -0.2239 -0.2436	0.7429 -0.0326 -0.2239 1.0000	-0.0517 0.7842 -0.2436 0.4724 1.0000	-0.2347 -0.2368 0.9762 -0.0417 -0.0628	-0.3738 \(\bigcup \) -0.2777 \(\bigcup \) 0.9966 \(\bigcup \) -0.2817 \(\bigcup \)
1.0000 0.0710	-0.1696 1.0000 -0.2335 -0.2959 0.7429 -0.0517 -0.2347	-0.1677 -0.2335 1.0000 -0.3068 -0.0326 0.7842 -0.2368	-0.2959 -0.3068 1.0000 -0.2239 -0.2436 0.9762	0.7429 -0.0326 -0.2239 1.0000 0.4724 -0.0417	-0.0517 0.7842 -0.2436 0.4724 1.0000 -0.0628	-0.2347 -0.2368 0.9762 -0.0417 -0.0628 1.0000	-0.3738 \(\begin{align*} -0.2777 \(\begin{align*} 0.9966 \(\begin{align*} \cdot -0.2817 \(\begin{align*} \cdot -0.2320 \(\begin{align*} \cdot 0.9682 \(\begin{align*} \cdot \cdot \cdot -0.2320 \(\begin{align*} \cdot
1.0000 0.0710	-0.1696 1.0000 -0.2335 -0.2959 0.7429 -0.0517	-0.1677 -0.2335 1.0000 -0.3068 -0.0326 0.7842	-0.2959 -0.3068 1.0000 -0.2239 -0.2436 0.9762	0.7429 -0.0326 -0.2239 1.0000 0.4724	-0.0517 0.7842 -0.2436 0.4724 1.0000	-0.2347 -0.2368 0.9762 -0.0417 -0.0628	-0.3738 \(\begin{align*} -0.2777 \(\begin{align*} 0.9966 \(\begin{align*} \equiv \) -0.2817 \(\begin{align*} \equiv \) -0.2320 \(\begin{align*} \equiv \equiv \]
1.0000 0.0710 -0.1696 -0.2620 -0.1677 -0.3963 0.0562 0.9954 -0.7857 -0.2127 -0.7432 -0.3136 -0.1555 0.9655 0.0692	-0.1696 1.0000 -0.2335 -0.2959 0.7429 -0.0517 -0.2347 -0.3738	-0.1677 -0.2335 1.0000 -0.3068 -0.0326 0.7842 -0.2368	-0.2959 -0.3068 1.0000 -0.2239 -0.2436 0.9762 0.9966	0.7429 -0.0326 -0.2239 1.0000 0.4724 -0.0417 -0.2817	-0.0517 0.7842 -0.2436 0.4724 1.0000 -0.0628 -0.2320	-0.2347 -0.2368 0.9762 -0.0417 -0.0628 1.0000 0.9682	-0.3738 × -0.2777 × 0.9966 × -0.2817 × -0.2320 × 0.9682 × 1.0000 ×