Supplemental Material for "Adaptive Multimodal Continuous Ant Colony Optimization"

Qiang Yang, Student Member, IEEE, Wei-Neng Chen, Member, IEEE, Zhengtao Yu, Member, IEEE, Tianlong Gu, Member, IEEE, Yun Li, Member, IEEE, Huaxiang Zhang, Member, IEEE and Jun Zhang, Senior Member, IEEE

TABLE SI
THE BASIC PROPERTIES OF CEC'2013 MULTIMODAL PROBLEMS

F	NI	ъ	NI C - 1 - 1	NI £1 1 £
_	Name	D	No. of global optima	
F_1	Five-Uneven-Peak Trap	1	2	3
F_2	Equal Maxima	1	5	0
F_3	Uneven Decreasing Maxima	1	1	4
F_4	Himmelblau	2	4	0
F_5	Six-Hump Camel Back	2	2	2
F_6	Shubert with 2D	2	18	many
F_7	Vincent with 2D	2	36	0
F_8	Shubert with 3D	3	81	many
F_9	Vincent with 3D	3	216	0
F_{10}	Modified Rastrigin	2	12	0
F_{11}	Composition Function 1 with 2D	2	6	many
F_{12}	Composition Function 2 with 2D	2	8	many
F_{13}	Composition Function 3 with 2D	2	6	many
F_{14}	Composition Function 3 with 3D	3	6	many
F_{15}	Composition Function 4 with 3D	3	8	many
F_{16}	Composition Function 3 with 5D	5	6	many
F_{17}	Composition Function 4 with 5D	5	8	many
F_{18}	Composition Function 3 with 10D		6	many
F_{19}	Composition Function 4 with 10D	10	8	many
F_{20}	Composition Function 4 with 20D	20	8	many

TABLE SII
DEFAULT PARAMETER SETTING FOR LAM-ACOS

Parameter	G	δ	N
Value	[2, 20]	1.0E-04	2

TABLE SIII

EXPERIMENTAL RESULTS OF LAM-ACOS WITH DIFFERENT SETTINGS FOR THE NICHE SIZE SET G REGARDING PR AT ACCURACY LEVEL ϵ =1.0E-04.

[10,20] [10,30 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000
1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000
1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000
1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000
1.000 1.000 1.000 1.000 1.000 1.000
1.000 1.000 1.000 1.000
1.000 1.000
1.000 1.000
0.690 0.635
0.515 0.518
0.311 0.272
0.156 0.148
0.905 0.935
0.670 0.667
0.831 0.804
0.667 0.667
0.667 0.667
0.748 0.748
0.667 0.667
0.721 0.716
0.667 0.660
0.502 0.490
0.267 0.287
8 0 0 3 7 7 7 3 7 0 4

TABLE SIV EXPERIMENTAL RESULTS OF LAM-ACOS WITH DIFFERENT SETTINGS FOR THE STANDARD DEVIATION δ IN THE LOCAL SEARCH REGARDING PR AT ACCURACY LEVEL ϵ =1.0E-04.

					1.0E-04	1				
		I	AMC-ACC)			I	LAMS-ACC)	
F	1.0E-01	1.0E-02	1.0E-03	1.0E-04	1.0E-05	1.0E-01	1.0E-02	1.0E-03	1.0E-04	1.0E-05
F_1	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
F_2	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
F_3	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
F_4	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
F_5	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
F_6	0.072	0.380 1.000 0.999 0.791		0.919	0.944	0.995	0.990	0.966		
F_7	0.688	0.763	0.795	0.743	0.699	0.654	0.726	0.724	0.683	0.649
F_8	0.000	0.000	0.033	0.639	0.171	0.213	0.248	0.411	0.765	0.567
F_9	0.264	0.330	0.333	0.290	0.266	0.243	0.303	0.291	0.254	0.235
F_{10}	0.997	1.000	1.000	1.000	1.000	0.995	0.990	0.998	1.000	1.000
F_{11}	0.676	0.670	0.673	0.670	0.667	0.941	0.954	0.961	0.961	0.951
F_{12}	0.392	0.444	0.708	0.770	0.662	0.909	0.924	0.966	0.983	0.941
F_{13}	0.667	0.667	0.667	0.667	0.667	0.667	0.676	0.676	0.670	0.670
F_{14}	0.667	0.667	0.667	0.667	0.667	0.667	0.667	0.667	0.667	0.667
F_{15}	0.424	0.400	0.527	0.740	0.723	0.699	0.667	0.721	0.748	0.745
F_{16}	0.667	0.667	0.667	0.667	0.667	0.667	0.667	0.667	0.667	0.667
F_{17}	0.311	0.353	0.456	0.608	0.480	0.495	0.488	0.578	0.708	0.674
F_{18}	0.667	0.667	0.667	0.667	0.667	0.667	0.667	0.667	0.667	0.667
F_{19}	0.480	0.483	0.495	0.500	0.493	0.495	0.495	0.498	0.502	0.502
F_{20}	0.245	0.243	0.262	0.267	0.252	0.336	0.319	0.336	0.346	0.314

TABLE SV EXPERIMENTAL RESULTS OF LAM-ACOS WITH DIFFERENT SETTINGS FOR THE NUMBER OF SAMPLED POINTS IN THE LOCAL SEARCH REGARDING PR AT ACCURACY LEVEL ϵ =1.0E-04.

	1.0E-04													
							1.0E-04							
F				LAMO	C-ACO					L	AMS-AC	O		
Г	1	2	4	5	6	8	10	1	2	4	5	6	8	10
F_1	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
F_2	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
F_3	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
F_4	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
F_5	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
F_6	0.996	0.999	0.998	1.000	0.998	0.999	0.999	0.984	0.990	0.985	0.990	0.987	0.993	0.989
F_7	0.731	0.743	0.748	0.754	0.723	0.739	0.736	0.694	0.683	0.687	0.697	0.692	0.693	0.704
F_8	0.504	0.639	0.707	0.716	0.722	0.706	0.712	0.722	0.765	0.782	0.767	0.769	0.765	0.744
F_9	0.294	0.290	0.289	0.290	0.287	0.280	0.278	0.252	0.254	0.262	0.257	0.257	0.252	0.252
F_{10}	1.000	1.000	1.000	1.000	1.000	1.000	1.000	0.998	1.000	1.000	1.000	1.000	1.000	1.000
F_{11}	0.676	0.670	0.667	0.667	0.667	0.667	0.667	0.977	0.961	0.928	0.902	0.902	0.876	0.846
F_{12}	0.779	0.770	0.750	0.752	0.750	0.750	0.750	0.985	0.983	0.980	0.985	0.983	0.975	0.985
F_{13}	0.667	0.667	0.667	0.667	0.667	0.667	0.667	0.683	0.670	0.667	0.667	0.667	0.667	0.667
F_{14}	0.667	0.667	0.667	0.667	0.667	0.667	0.667	0.667	0.667	0.667	0.667	0.667	0.667	0.667
F_{15}	0.728	0.740	0.738	0.730	0.728	0.723	0.703	0.748	0.748	0.748	0.748	0.745	0.745	0.740
F_{16}	0.667	0.667	0.667	0.667	0.667	0.667	0.667	0.667	0.667	0.667	0.667	0.667	0.667	0.667
F_{17}	0.618	0.608	0.625	0.620	0.593	0.588	0.608	0.694	0.708	0.686	0.681	0.696	0.674	0.667
F_{18}	0.667	0.667	0.667	0.667	0.667	0.667	0.667	0.667	0.667	0.667	0.667	0.667	0.667	0.667
F_{19}	0.493	0.500	0.495	0.495	0.498	0.495	0.495	0.500	0.502	0.500	0.498	0.507	0.502	0.502
F_{20}	0.257	0.267	0.267	0.267	0.257	0.243	0.240	0.338	0.346	0.343	0.331	0.338	0.336	0.314

I. TIME COMPLEXITY ANALYSIS

As for the complexity¹, given that the ant colony size is NP, the dimension size is D, the niche size is NS and the number of sampled points in local search is N, LAMC-ACO and LAMS-ACO outlined in **Algorithm 6** and **Algorithm 7** respectively, take $O(NP \times D)$ in Step 1, O(NP) in Step 2 and constant time in Step 3. In Step 4, LAMC-ACO takes $O((NP+1) \times D + NP^2 \times D)$ with each item corresponding to each step in **Algorithm 1**, while LAMS-ACO needs $O(NP \times log(NP) + NP^2 \times D)$ with each item associated with each step in **Algorithm 2**. In Step 5, both algorithms need $O(NP+NP \times log(NS) + NP \times D)$ as in **Algorithm 4**. When it comes to Step 6, LAMC-ACO takes $O(NP^2 \times D)$, while LAMS-ACO needs $O(NS \times NP \times D)$. For the local search in Step 7, both algorithms take $O(NP/NS \times N \times D)$.

Overall, since NP/NS, NS and N are much smaller than NP, we can see that the total complexities of both LAMC-ACO and LAMS-ACO are $O(NP^2 \times D)$, which is linearly proportional to the dimension size D.

II. PRELIMINARY EXPERIMENTS

This section mainly presents the preliminary experiments, which are designed for setting the parameters in the proposed LAM-ACOs. Except for the population size, which is a common problem-dependent parameter for all EAs, three parameters need to be set in LAM-ACOs, namely the niche size set G, the standard deviation δ and the number of sampled points N for the local search. In this paper, the population size is set according to [46], which adopts the same benchmark multimodal function suite. Thus, we only present the sensitivity analysis about G, δ and N in the preliminary experiments, which are shown as below. When conducting experiments on the sensitivity analysis about one parameter, the others are set as the default values presented in Table SII. It is worth mentioning that all experimental results are averaged over 51 independent runs.

A. Sensitivity to the Niche Size Set G

As different problems have different features, the optimal niche size for different multimodal problems may be different. Besides, for a given problem, at different evolution stages, this niche size even may be different, since different sub-regions may have different fitness landscapes. Consequently, to alleviate the sensitivity to the niche size for LAM-ACOs, we add a random-based niche size setting for the niching methods used in LAM-ACOs. Specifically, we predefine a niche size set G, which contains different integers representing different niche sizes. During each generation, a niche size is randomly selected from G.

Through this, a potential balance between exploration and exploitation can be obtained. This is because during evolution, when ants in one niche fall into local areas, a larger niche size selected at the following generations would introduce more solutions for ants to construct new solutions. This can potentially enhance the diversity of the niches and afford a chance for ants to escape from local areas. Thus the exploration ability of the algorithm is enhanced. On the contrary, when the niches contain too many solutions for ants to construct solutions caused by a large niche size, a smaller niche size selected at the following generations would reduce the number of solutions in the niches, potentially leading to narrow search space for ants to exploit. Thus, it may be beneficial for the enhancement of exploitation ability.

Thus, we can see that G should contain small and large integers simultaneously, so that the potential balance between exploration and exploitation can be achieved. To observe the sensitivity of LAM-ACOs to the niche size set G, we conduct experiments on LAM-ACOs by setting G as different ranges of integers, such as [2,5], [2,10], [10,30], etc. For simplicity, we only display the experimental results at the accuracy level ε =1.0E-04, which are shown in Table SIII.

From this table, we can see that both LAMC-ACO and LAMS-ACO are not sensitive to G if we keep it in a wide range containing both small and large integers. More specifically, we can find that LAMC-ACO or LAMS-ACO can obtain very similar performance when G is set as [2, 5], [2, 10], [2, 20], and [2, 30] respectively. However, when the integers in G are too large, such as G=[10, 30], both LAMC-ACO and LAMS-ACO degrade significantly on some functions, like F_6 - F_9 , F_{11} and F_{12} . This is because such ranges containing only large integers cannot provide the potential balance between exploration and exploitation for LAM-ACOs.

To summarize, a good setting of G is a wide range containing small and large integers. Specifically, we find G = [2,20] is enough for both LAMC-ACO and LAMS-ACO.

B. Sensitivity to the Standard Deviation δ for the Local Search

Generally, ACO needs a specific local search method to enhance its exploitation ability, so that the obtained solution can be refined. Since this paper aims to locate multiple global optima simultaneously, we conduct local search on the seeds of niches adaptively, so that multiple solutions can be refined during each generation.

In this paper, we realize the local search scheme by utilizing Gaussian distribution to sample points around the seeds of niches, because this distribution has a narrow sampling space, especially when the standard deviation δ is small. Thus, naturally, the standard deviation δ for the local search scheme should be small, so that better solutions can be found around the seeds. To observe the influence of the standard deviation δ on the proposed LAM-ACOs, we conduct experiments by varying δ from 1.0E-01 to 1.0E-05. For brevity, we only report the experimental results at the accuracy level ε =1.0E-04, which are shown in Table SIV.

¹ When conducting complexity analysis for EAs, we mainly pay attention to the extra time complexity in the algorithm with the time complexity of function evaluations excluded, which is problem-dependent.

From this table, we can see that when δ is too large, such as δ =1.0E-01 or δ =1.0E-02, LAMC-ACO performs very poorly on some functions, such as F_6 , F_8 , F_{12} , F_{17} , and F_{20} , and LAMS-ACO also only locates a small number of global optima on F_8 , and F_{17} . This is because, a large δ leads to large sampling space for Gaussian distribution, which is not beneficial for the local search method to refine the obtained solutions. When δ is small, such as δ =1.0E-03, δ =1.0E-04 and δ =1.0E-05, we can see that both LAMC-ACO and LAMS-ACO are not so sensitive to δ , since LAMC-ACO and LAMS-ACO with different small δ obtain very similar performance. This is because a small δ affords narrow sampling space for Gaussian distribution, which is beneficial for the local search method to search around the seeds of niches. However, compared with δ =1.0E-03 and δ =1.0E-05, both LAMC-ACO and LAMS-ACO with δ =1.0E-04 can obtain the best performance on most of the functions.

In a word, we can see that to refine the obtained solutions, δ should be small for the local search method. Specifically, δ =1.0E-04 is enough for the proposed LAM-ACOs.

C. Sensitivity to the Number of Sampled Points N for the Local Search

To enhance the probability that the solution accuracy is promoted, enough points should be sampled when conducting the local search. However, the number of sampled points (termed as *N*) should be neither too large nor too small. A too large number would waste fitness evaluations, especially when the local search is carried out around local areas. In contrast, a too small number may not afford the improvement of solutions.

Thus, to investigate the influence of the number of sampled points N on the proposed LAM-ACOs, we conduct experiments by varying N from 1 to 10. For simplicity, we only report the experimental results at the accuracy level ε =1.0E-04, which are shown in Table SV.

From this table, we can see that both LAMC-ACO and LAMS-ACO are not so sensitive to N since LAMC-ACO and LAS-ACO with different settings of N can achieve very similar performance. Specifically, we can find that both LAMC-ACO and LAMS-ACO with N=2 achieve the best performance on most of the functions. Thus, in this paper, N=2 is utilized.

III. EXPERIMENTAL RESULTS

TABLE SVI COMPARISON RESULTS WITH RESPECT TO PR AMONG AM-ACO, DE AND PSO WITH THE SAME NICHING METHODS AT ACCURACY LEVEL ϵ =1.0E-04.

	1.0E-04 F CC PSO Self CCDE AMC-ACO CS PSO Self CSDE AMS-ACO												
F	CC_PSO	Self_CCDE	AMC-ACO	CS_PSO	Self_CSDE	AMS-ACO							
F_1	0.892	1.000	1.000	0.745	1.000	1.000							
F_2	0.690	1.000	1.000	0.875	1.000	1.000							
F_3	1.000	1.000	1.000	1.000	1.000	1.000							
F_4	0.000	1.000	1.000	0.000	0.686	1.000							
F_5	0.902	1.000	1.000	0.853	0.961	1.000							
F_6	0.001	0.942	0.114	0.000	0.699	0.956							
F_7	0.065	0.884	0.734	0.068	0.695	0.680							
F_8	0.000	0.994	0.000	0.000	0.695	0.293							
F_9	0.000	0.459	0.291	0.000	0.265	0.261							
F_{10}	0.013	1.000	1.000	0.021	0.992	0.997							
F_{11}	0.000	0.778	0.673	0.000	0.399	0.954							
F_{12}	0.000	0.422	0.390	0.000	0.321	0.929							
F_{13}	0.000	0.660	0.667	0.003	0.317	0.676							
F_{14}	0.000	0.657	0.667	0.000	0.304	0.667							
F_{15}	0.000	0.343	0.380	0.000	0.186	0.679							
F_{16}	0.000	0.657	0.667	0.000	0.072	0.667							
F_{17}	0.000	0.248	0.292	0.000	0.056	0.422							
F_{18}	0.000	0.337	0.657	0.000	0.003	0.667							
F_{19}	0.000	0.113	0.370	0.000	0.000	0.495							
F_{20}		0.027	0.005	0.000	0.000	0.240							

TABLE SVII

COMPARISON RESULTS WITH RESPECT TO PR AMONG DIFFERENT

VERSIONS OF LAM-ACOS AT ACCURACY LEVEL ε=1.0E-04.

1.0E-04 - AMC-ACO LAMC-ACO AMS-ACO LAMS-ACO													
F	AMC	WDE DE	LAMO	C-ACO	AMS-	-ACO	LAMS	S-ACO					
Г	WDE	DE	WDE	DE	WDE	DE	WDE	DE					
F_1	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000					
F_2	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000					
F_3	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000					
F_4	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000					
F_5	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000					
F_6	0.114	0.098	1.000	0.999	0.956	0.936	0.993	0.990					
F_7	0.734	0.702	0.748	0.743	0.680	0.668	0.715	0.683					
F_8	0.000	0.000	0.686	0.639	0.293	0.330	0.777	0.765					
F_{9}	0.291	0.279	0.306	0.290	0.261	0.242	0.273	0.254					
F_{10}	1.000	1.000	1.000	1.000	0.997	0.995	1.000	1.000					
F_{11}	0.673	0.729	0.667	0.670	0.954	0.974	0.931	0.961					
F_{12}	0.390	0.473	0.752	0.770	0.929	0.922	0.985	0.983					
F_{13}	0.667	0.667	0.667	0.667	0.676	0.699	0.667	0.670					
F_{14}	0.667	0.667	0.667	0.667	0.667	0.670	0.667	0.667					
F_{15}	0.380	0.387	0.689	0.740	0.679	0.711	0.743	0.748					
F_{16}	0.667	0.667	0.667	0.667	0.667	0.667	0.667	0.667					
F_{17}	0.292	0.373	0.542	0.608	0.422	0.532	0.640	0.708					
F_{18}	0.657	0.667	0.667	0.667	0.667	0.667	0.667	0.667					
F_{19}	0.370	0.495	0.480	0.500	0.495	0.498	0.495	0.502					
F_{20}	0.005	0.267	0.047	0.267	0.240	0.331	0.211	0.346					

TABLE SVIII

COMPARISON RESULTS WITH RESPECT TO CS AMONG DIFFERENT VERSIONS OF LAM-ACOS AT ACCURACY LEVEL ϵ =1.0E-04.

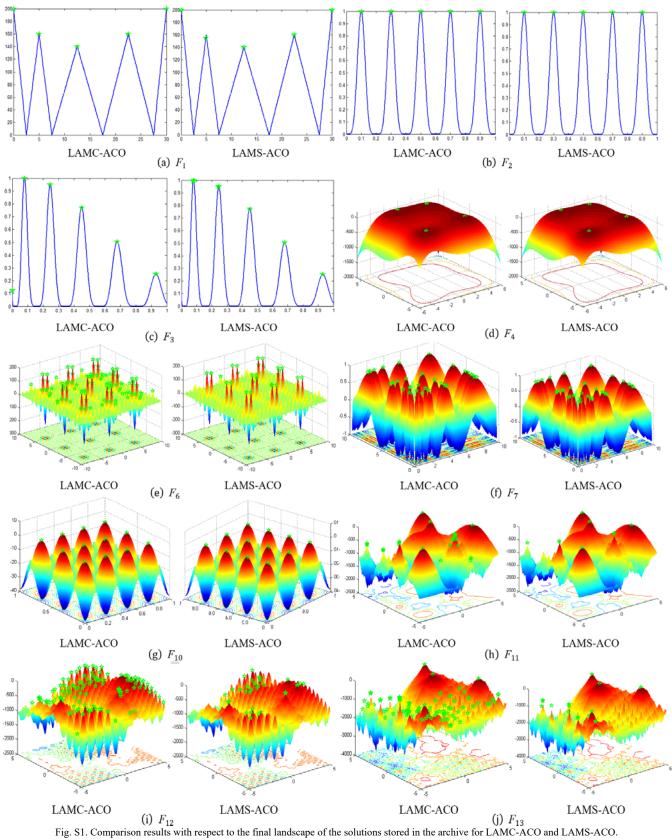
ACCORNOT ELVEL C 1.0L V4.															
	1.0E-04														
F	LAMS	S-ACO													
Г	WDE	DE	WDE	DE	WDE	DE	WDE	DE							
F_1	2.26E+02	2.12E+02	2.01E+02	2.64E+02	2.14E+02										
F_2	9.79E+02	1.01E+03	9.20E+02	7.87E+02	9.08E+02	8.35E+02	8.39E+02 7.78E +								
F_3	7.29E+02	7.07E+02	5.09E+02	5.03E+02	6.34E+02	5.51E+02	5.61E+02	5.07E+02							
F_4	6.48E+03	5.89E+03	7.60E+03	6.47E+03	4.48E+03	3.77E+03	5.40E+03	4.62E+03							
F_{5}	2.54E+03	2.02E+03	2.95E+03	2.51E+03	1.91E+03	1.48E+03	2.13E+03 1.83E+03								

 $TABLE\ SIX$ COMPARISON RESULTS OF LAM-ACOS WITH DYNAMIC NICHE SIZING OR A FIXED NICHE SIZE AT ACCURACY LEVEL ϵ =1.0E-04.

							1.0E-04	E-04								
			I	LAMC-A	.CO]	LAMS-A	CO				
F	2	4	8	12	16	20	Random	2	4	8	12	16	20	Random		
F_1	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000		
F_2	1.000	1.000	1.000	1.000	0.996	1.000	1.000	1.000	1.000	1.000	1.000	1.000	0.988	1.000		
F_3	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000		
F_4	1.000	1.000	1.000	1.000	0.995	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000		
F_5	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000		
F_6	0.999	1.000	0.960	0.833	0.717	0.553	0.999	0.976	0.969	0.803	0.624	0.528	0.353	0.990		
F_7	0.758	0.693	0.673	0.606	0.587	0.545	0.743	0.725	0.654	0.600	0.543	0.535	0.493	0.683		
F_8	0.804	0.712	0.515	0.390	0.316	0.258	0.639	0.764	0.704	0.437	0.315	0.256	0.215	0.765		
F_9	0.336	0.286	0.228	0.195	0.174	0.162	0.290	0.301	0.243	0.188	0.157	0.141	0.122	0.254		
F_{10}	1.000	0.998	0.995	0.977	0.969	0.936	1.000	0.997	0.997	0.989	0.882	0.856	0.719	1.000		
F_{11}	0.980	0.856	0.667	0.667	0.667	0.667	0.670	0.977	0.990	0.794	0.670	0.667	0.667	0.961		
F_{12}	0.980	0.973	0.752	0.745	0.733	0.716	0.770	0.963	0.995	0.973	0.855	0.757	0.708	0.983		
F_{13}	0.667	0.667	0.667	0.667	0.667	0.667	0.667	0.667	0.722	0.667	0.667	0.667	0.667	0.670		
F_{14}	0.667	0.667	0.667	0.667	0.667	0.667	0.667	0.667	0.667	0.667	0.667	0.667	0.667	0.667		
F_{15}	0.608	0.701	0.743	0.750	0.750	0.740	0.740	0.645	0.718	0.738	0.748	0.748	0.743	0.748		
F_{16}	0.667	0.667	0.667	0.667	0.667	0.667	0.667	0.654	0.667	0.667	0.667	0.667	0.667	0.667		
F_{17}	0.466	0.576	0.630	0.637	0.608	0.515	0.608	0.434	0.593	0.684	0.733	0.708	0.713	0.708		
F_{18}	0.614	0.667	0.660	0.663	0.660	0.650	0.667	0.114	0.644	0.650	0.667	0.667	0.667	0.667		
F_{19}	0.451	0.500	0.488	0.466	0.471	0.407	0.500	0.127	0.449	0.500	0.500	0.505	0.502	0.502		
F_{20}	0.132	0.299	0.265	0.240	0.223	0.169	0.267	0.000	0.252	0.270	0.252	0.248	0.223	0.346		

 ${\it TABLE~SX} \\ {\it COMPARISON~RESULTS~WITH~RESPECT~TO~PR~AND~SR~BETWEEN~LAMC-ACO~AND~LAMS-ACO~AT~ALL~FIVE~ACCURACY~LEVELS.}$

		F	1			F	2			F	3			F	4			F	75	
ε	LAMO	-ACO	LAMS	S-ACO	LAMO	C-ACO	LAMS	-ACO	LAMO	C-ACO	LAMS	S-ACO	LAMO	C-ACO	LAMS	S-ACO	LAMO	C-ACO	LAMS	S-ACO
	PR	SR	PR	SR	PR	SR	PR	SR	PR	SR	PR	SR	PR	SR	PR	SR	PR	SR	PR	SR
1.0E-01	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
1.0E-02	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
1.0E-03	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
1.0E-04	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
1.0E-05	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
		F	U			F	/			F	0			F	,			F	10	
ε	LAMO	C-ACO			LAMO															
	PR	SR	PR	SR	PR	SR	PR	SR	PR	SR	PR	SR	PR	SR	PR	SR	PR	SR	PR	SR
1.0E-01	0.999		0.992	0.863	1.000	1.000	1.000			0.000	0.803	0.000	0.401		0.350		1.000		1.000	1.000
1.0E-02	0.999	0.980	0.992		*****	0.000			0.696		0.791	0.000	0.393		0.336			1.000	1.000	1.000
1.0E-03	0.999	0.980		0.824		0.000			0.680		0.782	0.000	0.00		0.295			1.000	1.000	1.000
1.0E-04	0.999	0.980		0.824			0.683				0.765		0.290		0.254			1.000	1.000	1.000
1.0E-05	0.999	0.980		0.824	0.714	0.000		0.000	0.403		0.647	0.000	0.256	0.000		0.000	1.000	1.000	1.000	1.000
		F				F	1.4			F	1.7			F				F	13	
ε	LAMO				LAMO				LAMO					C-ACO				C-ACO		
	PR	SR	PR	SR	PR	SR	PR	SR	PR	SR	PR	SR	PR	SR	PR	SR	PR	SR	PR	SR
1.0E-01	1.000	1.000	1.000	1.000			0.985		0.993		0.993	0.980			1.000		1.000		0.77.0	0.980
1.0E-02		0.373	0.984	0.902		0.882									0.667				0.748	
1.0E-03	0.683	0.000		0.843		0.098				0.000	0.676		0.667		0.667				0.748	
1.0E-04	0.670	0.000	***	0.765		0.000				0.000	0.670		0.667		0.667			0.000	0.748	
1.0E-05	0.670	0.000	0.944	0.667	0.750			0.843	0.667		0.667	0.000	0.667		0.667	0.000	0.730	0.000		0.000
	T + 3.40	F	6	1 4 60	T 43.46	F	. /	1 1 00	T 43.66	F	10	1 4 60	T 43.56	F		1 1 00	T 43.50	F	20	1 4 60
ε	LAMC				LAMO				LAMO					C-ACO						
4.05.04	PR	SR	PR	SR	PR	SR	PR	SR	PR	SR	PR	SR	PR	SR	PR	SR	PR	SR	PR	SR
1.0E-01	1.000	1.000	1.000	1.000	1.000		0.988		1.000	1.000	1.000		0.919			0.784		0.529	0.632	0.451
1.0E-02	0.667	0.000	0.667		0.0.0				0.667	0.000	0.667	0.000	0.500		0.502		0.272	0.000	0.348	
1.0E-03	0.667	0.000		0.000			0.708			0.000	0.667		0.500		0.502			0.000	0.348	
1.0E-04	0.667	0.000	0.667	0.000		0.000				0.000	0.667				0.502			0.000	0.346	
1.0E-05	0.667	0.000	0.667	0.000	0.505	0.000	0.625	0.000	0.667	0.000	0.667	0.000	0.498	0.000	0.502	0.000	0.245	0.000	0.333	0.000



*In the following five tables (Tables SXI-SXV), the results of each algorithm with respect to PR, SR, and CS are presented with each table associated with one accuracy level. The best PRs are highlighted in bold, and the last row of each table, termed "bprs" counts the number of the best PRs each algorithm obtains on the total 20 functions, namely the number of the bolded PRs. Table SXVI presents the change of "bprs" of different algorithms with the accuracy level increasing.

TABLE SXI COMPARISON RESULTS IN PR, SR AND CS BETWEEN LAM-ACOS AND STATE-OF-THE-ART MULTIMODAL METHODS ON TOTAL 20 FUNCTIONS AT ACCURACY LEVEL ϵ =1.0E-01. THE BEST PR IS HIGHLIGHTED IN BOLD.

FUNCTIONS AT ACCURACY LE											0E-01	TIL DLS	1 1 1 1	J IIIO	ILIGITI	DD III	DOLL	-			
		CDI	E		SDI	3		LIPS	3	1.	R2PS	0		NCD	E		NSD	E	S	elf CO	CDE
F	PR	SR	CS	PR	SR	CS	PR	SR	CS	PR	SR	CS	PR	SR	CS	PR	SR	CS	PR	SR	CS
F_1	1.000	1.000	1.60E+2	0.657	0.373		0.833	0.686		1.000		1.88E+2	1.000	1.000	6.85E+2	1.000	1.000	2.39E+2	1.000	1.000	3.55E+2
F_2	1.000	1.000	9.73E+1	1.000	1.000	1.05E+2	1.000	1.000	1.22E+2	1.000	1.000	9.41E+1	1.000	1.000	9.73E+1	1.000	1.000	9.73E+1	1.000	1.000	1.04E+2
F_3	1.000	1.000	8.78E+1	1.000	1.000	8.74E+1	1.000	1.000	8.63E+1	1.000	1.000	8.94E+1	1.000	1.000	8.16E+1	1.000	1.000	8.31E+1	1.000	1.000	8.78E+1
F_4	1.000	1.000	7.32E+3	1.000	1.000	2.43E+3	1.000	1.000	8.89E+2	1.000	1.000	1.61E+3	1.000	1.000	1.65E+3	1.000	1.000	7.16E+2	1.000	1.000	2.43E+3
F_5			2.54E+2																		2.90E+2
F_6			5.82E+4																	0.961	4.97E+4
F_7			3.03E+3																		2.55E+3
F_8			4.00E+5																		
F_9			3.23E+5																0.482		4.00E+5
F_{10}			5.35E+3																		
F_{11}			8.46E+4																		
F_{12}			2.00E+5 1.39E+5																		
F_{13}			2.65E+5																		
$\frac{F_{14}}{F_{15}}$			3.03E+5																		
$\frac{F_{15}}{F_{15}}$			3.99E+5																		
F_{17}			4.00E+5																		
F_{18}			1.90E+5																		
10			4.00E+5																		
17																					
bprs		12			0.000 0.000 4.00E+5			0.000 0.000 4.00E+5 6			8			14			8			12	
	20			5			6														
										ı											
F		elf_C		DD.	LoICI		DD.	LoISI			PNPC			ИОМ			AMC-			AMS-	
	PR	SR	CS	PR	SR	CS	PR	SR	CS	PR	PNPC SR	CS	PR	MOMN SR	CS	PR	AMC	CS	PR	AMS-A	CS
F_1	PR 1.000	SR 1.000	CS 7.07E+2	1.000	SR 1.000	CS 1.73E+2	1.000	SR 1.000	CS 1.68E+2	PR 1.000	PNPC SR 1.000	CS 1.62E+2	PR 1.000	MOMN SR 1.000	CS 1.66E+2	PR 1.000	AMC SR 1.000	CS 2.59E+2	PR 1.000	AMS-2 SR 1.000	CS 2.12E+2
F_1 F_2	PR 1.000 1.000	SR 1.000 1.000	CS 7.07E+2 1.22E+2	1.000 1.000	SR 1.000 1.000	CS 1.73E+2 1.00E+2	1.000 1.000	SR 1.000 1.000	CS 1.68E+2 9.57E+1	PR 1.000 1.000	PNPC SR 1.000 1.000	CS 1.62E+2 9.73E+1	PR 1.000 1.000	MOMN SR 1.000 1.000	CS 1.66E+2 1.05E+2	PR 1.000 1.000	AMC- SR 1.000 1.000	CS 2.59E+2 9.69E+1	PR 1.000 1.000	AMS-A SR 1.000 1.000	CS 2.12E+2 1.05E+2
F_1 F_2 F_3	PR 1.000 1.000 1.000	SR 1.000 1.000 1.000	CS 7.07E+2 1.22E+2 9.25E+1	1.000 1.000 1.000	SR 1.000 1.000 1.000	CS 1.73E+2 1.00E+2 8.63E+1	1.000 1.000 1.000	SR 1.000 1.000 1.000	CS 1.68E+2 9.57E+1 8.47E+1	PR 1.000 1.000 1.000	PNPC SR 1.000 1.000	CS 1.62E+2 9.73E+1 8.47E+1	PR 1.000 1.000 1.000	MOMN SR 1.000 1.000	CS 1.66E+2 1.05E+2 8.47E+1	PR 1.000 1.000 1.000	AMC- SR 1.000 1.000	CS 2.59E+2 9.69E+1 9.45E+1	PR 1.000 1.000 1.000	AMS-A SR 1.000 1.000	CS 2.12E+2 1.05E+2 8.55E+1
F_1 F_2 F_3 F_4	PR 1.000 1.000 1.000 1.000	SR 1.000 1.000 1.000 1.000	CS 7.07E+2 1.22E+2 9.25E+1 3.03E+3	1.000 1.000 1.000 1.000	SR 1.000 1.000 1.000 1.000	CS 1.73E+2 1.00E+2 8.63E+1 2.91E+3	1.000 1.000 1.000 1.000	SR 1.000 1.000 1.000 1.000	CS 1.68E+2 9.57E+1 8.47E+1 8.61E+2	PR 1.000 1.000 1.000 1.000	PNPC SR 1.000 1.000 1.000	CS 1.62E+2 9.73E+1 8.47E+1 5.14E+3	PR 1.000 1.000 1.000 1.000	MOMN SR 1.000 1.000 1.000	CS 1.66E+2 1.05E+2 8.47E+1 2.50E+4	PR 1.000 1.000 1.000 1.000	AMC- SR 1.000 1.000 1.000	CS 2.59E+2 9.69E+1 9.45E+1 1.63E+3	PR 1.000 1.000 1.000 1.000	AMS-A SR 1.000 1.000 1.000	CS 2.12E+2 1.05E+2 8.55E+1 1.29E+3
F_1 F_2 F_3 F_4 F_5	PR 1.000 1.000 1.000 1.000 1.000	SR 1.000 1.000 1.000 1.000 1.000	CS 7.07E+2 1.22E+2 9.25E+1 3.03E+3 4.36E+2	1.000 1.000 1.000 1.000 1.000	SR 1.000 1.000 1.000 1.000 1.000	CS 1.73E+2 1.00E+2 8.63E+1 2.91E+3 1.95E+2	1.000 1.000 1.000 1.000 1.000	SR 1.000 1.000 1.000 1.000 1.000	CS 1.68E+2 9.57E+1 8.47E+1 8.61E+2 2.07E+2	PR 1.000 1.000 1.000 1.000 1.000	PNPC SR 1.000 1.000 1.000 1.000	CS 1.62E+2 9.73E+1 8.47E+1 5.14E+3 2.98E+2	PR 1.000 1.000 1.000 1.000 1.000	MOMN SR 1.000 1.000 1.000 1.000	CS 1.66E+2 1.05E+2 8.47E+1 2.50E+4 7.98E+2	PR 1.000 1.000 1.000 1.000 1.000	AMC- SR 1.000 1.000 1.000 1.000	CS 2.59E+2 9.69E+1 9.45E+1 1.63E+3 2.38E+2	PR 1.000 1.000 1.000 1.000 1.000	AMS-2 SR 1.000 1.000 1.000 1.000	CS 2.12E+2 1.05E+2 8.55E+1 1.29E+3 2.30E+2
F_1 F_2 F_3 F_4 F_5 F_6	PR 1.000 1.000 1.000 1.000 0.855	SR 1.000 1.000 1.000 1.000 0.176	CS 7.07E+2 1.22E+2 9.25E+1 3.03E+3 4.36E+2 1.77E+5	1.000 1.000 1.000 1.000 1.000 1.000	SR 1.000 1.000 1.000 1.000 1.000	CS 1.73E+2 1.00E+2 8.63E+1 2.91E+3 1.95E+2 5.15E+4	1.000 1.000 1.000 1.000 1.000 0.056	SR 1.000 1.000 1.000 1.000 0.000	CS 1.68E+2 9.57E+1 8.47E+1 8.61E+2 2.07E+2 2.00E+5	PR 1.000 1.000 1.000 1.000 1.000	PNPC SR 1.000 1.000 1.000 1.000 1.000	CS 1.62E+2 9.73E+1 8.47E+1 5.14E+3 2.98E+2 1.01E+5	PR 1.000 1.000 1.000 1.000 1.000	MOMN SR 1.000 1.000 1.000 1.000 1.000	CS 1.66E+2 1.05E+2 8.47E+1 2.50E+4 7.98E+2 5.04E+4	PR 1.000 1.000 1.000 1.000 0.999	AMC- SR 1.000 1.000 1.000 1.000 0.980	CS 2.59E+2 9.69E+1 9.45E+1 1.63E+3 2.38E+2 7.39E+4	PR 1.000 1.000 1.000 1.000 0.992	AMS-2 SR 1.000 1.000 1.000 1.000 0.863	CS 2.12E+2 1.05E+2 8.55E+1 1.29E+3 2.30E+2 8.49E+4
F_1 F_2 F_3 F_4 F_5 F_6 F_7	PR 1.000 1.000 1.000 1.000 1.000 0.855 1.000	SR 1.000 1.000 1.000 1.000 1.000 0.176 1.000	CS 7.07E+2 1.22E+2 9.25E+1 3.03E+3 4.36E+2	1.000 1.000 1.000 1.000 1.000 1.000	SR 1.000 1.000 1.000 1.000 1.000 1.000	CS 1.73E+2 1.00E+2 8.63E+1 2.91E+3 1.95E+2 5.15E+4 2.61E+3	1.000 1.000 1.000 1.000 1.000 0.056 1.000	SR 1.000 1.000 1.000 1.000 0.000 1.000	CS 1.68E+2 9.57E+1 8.47E+1 8.61E+2 2.07E+2 2.00E+5 1.51E+3	PR 1.000 1.000 1.000 1.000 1.000 1.000	PNPC SR 1.000 1.000 1.000 1.000 1.000 1.000	CS 1.62E+2 9.73E+1 8.47E+1 5.14E+3 2.98E+2 1.01E+5 2.86E+3	PR 1.000 1.000 1.000 1.000 1.000 1.000	MOMN SR 1.000 1.000 1.000 1.000 1.000 1.000	CS 1.66E+2 1.05E+2 8.47E+1 2.50E+4 7.98E+2 5.04E+4 2.71E+4	PR 1.000 1.000 1.000 1.000 1.000 0.999 1.000	AMC- SR 1.000 1.000 1.000 1.000 0.980 1.000	CS 2.59E+2 9.69E+1 9.45E+1 1.63E+3 2.38E+2 7.39E+4 2.74E+3	PR 1.000 1.000 1.000 1.000 1.000 0.992 1.000	AMS-2 SR 1.000 1.000 1.000 1.000 0.863 1.000	CS 2.12E+2 1.05E+2 8.55E+1 1.29E+3 2.30E+2 8.49E+4 2.82E+3
F_1 F_2 F_3 F_4 F_5 F_6 F_7	PR 1.000 1.000 1.000 1.000 0.855 1.000 0.695	SR 1.000 1.000 1.000 1.000 1.000 0.176 1.000 0.000	CS 7.07E+2 1.22E+2 9.25E+1 3.03E+3 4.36E+2 1.77E+5 2.48E+3 4.00E+5	1.000 1.000 1.000 1.000 1.000 1.000 0.214	SR 1.000 1.000 1.000 1.000 1.000 1.000 0.000	CS 1.73E+2 1.00E+2 8.63E+1 2.91E+3 1.95E+2 5.15E+4 2.61E+3 4.00E+5	1.000 1.000 1.000 1.000 0.056 1.000 0.012	SR 1.000 1.000 1.000 1.000 1.000 0.000 1.000	CS 1.68E+2 9.57E+1 8.47E+1 8.61E+2 2.07E+2 2.00E+5 1.51E+3 4.00E+5	PR 1.000 1.000 1.000 1.000 1.000 1.000 0.038	PNPCI SR 1.000 1.000 1.000 1.000 1.000 1.000 0.000	CS 1.62E+2 9.73E+1 8.47E+1 5.14E+3 2.98E+2 1.01E+5 2.86E+3 4.00E+5	PR 1.000 1.000 1.000 1.000 1.000 1.000 1.000	1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000	CS 1.66E+2 1.05E+2 8.47E+1 2.50E+4 7.98E+2 5.04E+4 2.71E+4 2.28E+5	PR 1.000 1.000 1.000 1.000 0.999 1.000 0.737	AMC SR 1.000 1.000 1.000 1.000 0.980 1.000 0.000	CS 2.59E+2 9.69E+1 9.45E+1 1.63E+3 2.38E+2 7.39E+4 2.74E+3 4.00E+5	PR 1.000 1.000 1.000 1.000 0.992 1.000 0.803	AMS-2 SR 1.000 1.000 1.000 1.000 0.863 1.000 0.000	CS 2.12E+2 1.05E+2 8.55E+1 1.29E+3 2.30E+2 8.49E+4 2.82E+3 4.00E+5
F_1 F_2 F_3 F_4 F_5 F_6 F_7	PR 1.000 1.000 1.000 1.000 0.855 1.000 0.695 0.265	SR 1.000 1.000 1.000 1.000 1.000 0.176 1.000 0.000	CS 7.07E+2 1.22E+2 9.25E+1 3.03E+3 4.36E+2 1.77E+5 2.48E+3	1.000 1.000 1.000 1.000 1.000 1.000 1.000 0.214 0.518	SR 1.000 1.000 1.000 1.000 1.000 1.000 0.000 0.078	CS 1.73E+2 1.00E+2 8.63E+1 2.91E+3 1.95E+2 5.15E+4 2.61E+3 4.00E+5 3.72E+5	1.000 1.000 1.000 1.000 1.000 0.056 1.000 0.012	SR 1.000 1.000 1.000 1.000 0.000 1.000 0.000 0.000	CS 1.68E+2 9.57E+1 8.47E+1 8.61E+2 2.07E+2 2.00E+5 1.51E+3 4.00E+5 4.00E+5	PR 1.000 1.000 1.000 1.000 1.000 1.000 0.038 0.516	PNPCI SR 1.000 1.000 1.000 1.000 1.000 1.000 0.000 0.078	CS 1.62E+2 9.73E+1 8.47E+1 5.14E+3 2.98E+2 1.01E+5 2.86E+3 4.00E+5 3.71E+5	PR 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000	MOMN SR 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000	CS 1.66E+2 1.05E+2 8.47E+1 2.50E+4 7.98E+2 5.04E+4 2.71E+4 2.28E+5 7.98E+4	PR 1.000 1.000 1.000 1.000 0.999 1.000 0.737 0.401	AMC SR 1.000 1.000 1.000 1.000 0.980 1.000 0.000	CS 2.59E+2 9.69E+1 9.45E+1 1.63E+3 2.38E+2 7.39E+4 2.74E+3 4.00E+5	PR 1.000 1.000 1.000 1.000 0.992 1.000 0.803 0.350	AMS-2 SR 1.000 1.000 1.000 1.000 0.863 1.000 0.000	CS 2.12E+2 1.05E+2 8.55E+1 1.29E+3 2.30E+2 8.49E+4 2.82E+3 4.00E+5 4.00E+5
F_{1} F_{2} F_{3} F_{4} F_{5} F_{6} F_{7} F_{8} F_{9} F_{10}	PR 1.000 1.000 1.000 1.000 0.855 1.000 0.695 0.265 1.000	SR 1.000 1.000 1.000 1.000 1.000 0.176 1.000 0.000 0.000 1.000	CS 7.07E+2 1.22E+2 9.25E+1 3.03E+3 4.36E+2 1.77E+5 2.48E+3 4.00E+5	1.000 1.000 1.000 1.000 1.000 1.000 0.214 0.518 1.000	SR 1.000 1.000 1.000 1.000 1.000 1.000 0.000 0.078 1.000	CS 1.73E+2 1.00E+2 8.63E+1 2.91E+3 1.95E+2 5.15E+4 2.61E+3 4.00E+5 3.72E+5 5.33E+3	1.000 1.000 1.000 1.000 0.056 1.000 0.012 0.005 0.083	SR 1.000 1.000 1.000 1.000 0.000 0.000 0.000 0.000 0.000	CS 1.68E+2 9.57E+1 8.47E+1 8.61E+2 2.07E+2 2.00E+5 1.51E+3 4.00E+5 4.00E+5 2.00E+5	PR 1.000 1.000 1.000 1.000 1.000 1.000 0.038 0.516 1.000	PNPC SR 1.000 1.000 1.000 1.000 1.000 1.000 0.000 0.078 1.000	CS 1.62E+2 9.73E+1 8.47E+1 5.14E+3 2.98E+2 1.01E+5 2.86E+3 4.00E+5 3.71E+5 5.17E+3	PR 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000	MOMN SR 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000	CS 1.66E+2 1.05E+2 8.47E+1 2.50E+4 7.98E+2 5.04E+4 2.71E+4 2.28E+5 7.98E+4 3.44E+4	PR 1.000 1.000 1.000 1.000 0.999 1.000 0.737 0.401 1.000	AMC- SR 1.000 1.000 1.000 1.000 0.980 1.000 0.000 0.000	CS 2.59E+2 9.69E+1 9.45E+1 1.63E+3 2.38E+2 7.39E+4 2.74E+3 4.00E+5 4.00E+5 3.33E+3	PR 1.000 1.000 1.000 1.000 0.992 1.000 0.803 0.350 1.000	AMS-2 SR 1.000 1.000 1.000 1.000 0.863 1.000 0.000 0.000	CS 2.12E+2 1.05E+2 8.55E+1 1.29E+3 2.30E+2 8.49E+4 2.82E+3 4.00E+5 4.00E+5 3.58E+3
F_{1} F_{2} F_{3} F_{4} F_{5} F_{6} F_{7} F_{8} F_{9} F_{10}	PR 1.000 1.000 1.000 1.000 0.855 1.000 0.695 0.265 1.000 0.997	SR 1.000 1.000 1.000 1.000 0.176 1.000 0.000 0.000 1.000 0.980	CS 7.07E+2 1.22E+2 9.25E+1 3.03E+3 4.36E+2 1.77E+5 2.48E+3 4.00E+5 4.00E+5 2.70E+3	1.000 1.000 1.000 1.000 1.000 1.000 0.214 0.518 1.000 1.000	SR 1.000 1.000 1.000 1.000 1.000 1.000 0.000 0.078 1.000 1.000	CS 1.73E+2 1.00E+2 8.63E+1 2.91E+3 1.95E+2 5.15E+4 2.61E+3 4.00E+5 3.72E+5 5.33E+3 1.82E+4	1.000 1.000 1.000 1.000 0.056 1.000 0.012 0.005 0.083 0.967	SR 1.000 1.000 1.000 1.000 0.000 1.000 0.000 0.000 0.000 0.961	CS 1.68E+2 9.57E+1 8.47E+1 8.61E+2 2.07E+2 2.00E+5 1.51E+3 4.00E+5 4.00E+5 2.00E+5 1.11E+4	PR 1.000 1.000 1.000 1.000 1.000 1.000 0.038 0.516 1.000 1.000	PNPC SR 1.000 1.000 1.000 1.000 1.000 1.000 0.000 0.078 1.000 1.000	CS 1.62E+2 9.73E+1 8.47E+1 5.14E+3 2.98E+2 1.01E+5 2.86E+3 4.00E+5 3.71E+5 5.17E+3 6.09E+4	PR 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000	MOMN SR 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000	CS 1.66E+2 1.05E+2 8.47E+1 2.50E+4 7.98E+2 5.04E+4 2.71E+4 2.28E+5 7.98E+4 3.44E+4 5.83E+4	PR 1.000 1.000 1.000 1.000 0.999 1.000 0.737 0.401 1.000 1.000	AMC- SR 1.000 1.000 1.000 1.000 0.980 1.000 0.000 0.000 1.000	CS 2.59E+2 9.69E+1 9.45E+1 1.63E+3 2.38E+2 7.39E+4 2.74E+3 4.00E+5 4.00E+5 3.33E+3 9.00E+3	PR 1.000 1.000 1.000 1.000 1.000 0.992 1.000 0.803 0.350 1.000 1.000	AMS-2 SR 1.000 1.000 1.000 1.000 0.863 1.000 0.000 0.000 1.000	CS 2.12E+2 1.05E+2 8.55E+1 1.29E+3 2.30E+2 8.49E+4 2.82E+3 4.00E+5 4.00E+5 3.58E+3 6.21E+3
$F_{1} \\ F_{2} \\ F_{3} \\ F_{4} \\ F_{5} \\ F_{6} \\ F_{7} \\ F_{8} \\ F_{9} \\ F_{10} \\ F_{11}$	PR 1.000 1.000 1.000 1.000 0.855 1.000 0.695 0.265 1.000 0.997 0.699	SR 1.000 1.000 1.000 1.000 0.176 1.000 0.000 0.000 1.000 0.980 0.118	CS 7.07E+2 1.22E+2 9.25E+1 3.03E+3 4.36E+2 1.77E+5 2.48E+3 4.00E+5 4.00E+5 2.70E+3 3.01E+4	1.000 1.000 1.000 1.000 1.000 1.000 0.214 0.518 1.000 0.750	SR 1.000 1.000 1.000 1.000 1.000 1.000 0.000 0.078 1.000 1.000 0.000	CS 1.73E+2 1.00E+2 8.63E+1 2.91E+3 1.95E+2 5.15E+4 2.61E+3 4.00E+5 3.72E+5 5.33E+3 1.82E+4 2.00E+5	1.000 1.000 1.000 1.000 0.056 1.000 0.012 0.005 0.083 0.967 0.125	SR 1.000 1.000 1.000 1.000 0.000 0.000 0.000 0.000 0.961 0.000	CS 1.68E+2 9.57E+1 8.47E+1 8.61E+2 2.07E+2 2.00E+5 1.51E+3 4.00E+5 4.00E+5 1.11E+4 2.00E+5	PR 1.000 1.000 1.000 1.000 1.000 1.000 0.038 0.516 1.000 1.000 0.331	PNPC SR 1.000 1.000 1.000 1.000 1.000 0.000 0.078 1.000 1.000 0.000 0.000	CS 1.62E+2 9.73E+1 8.47E+1 5.14E+3 2.98E+2 1.01E+5 2.86E+3 4.00E+5 3.71E+5 5.17E+3 6.09E+4 2.00E+5	PR 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 0.975	1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 0.804	CS 1.66E+2 1.05E+2 8.47E+1 2.50E+4 7.98E+2 5.04E+4 2.71E+4 2.28E+5 7.98E+4 3.44E+4 5.83E+4 1.33E+5	PR 1.000 1.000 1.000 1.000 0.999 1.000 0.737 0.401 1.000 1.000 1.000	AMC- SR 1.000 1.000 1.000 1.000 0.980 1.000 0.000 0.000 1.000 1.000	CS 2.59E+2 9.69E+1 9.45E+1 1.63E+3 2.38E+2 7.39E+4 2.74E+3 4.00E+5 4.00E+5 3.33E+3 9.00E+3 1.15E+5	PR 1.000 1.000 1.000 1.000 0.992 1.000 0.803 0.350 1.000 1.000 0.985	AMS-25 SR 1.000 1.000 1.000 1.000 0.863 1.000 0.000 0.000 1.000 1.000 0.882	CS 2.12E+2 1.05E+2 8.55E+1 1.29E+3 2.30E+2 8.49E+4 2.82E+3 4.00E+5 4.00E+5 3.58E+3 6.21E+3 7.63E+4
F_{1} F_{2} F_{3} F_{4} F_{5} F_{6} F_{7} F_{8} F_{9} F_{10} F_{11} F_{12}	PR 1.000 1.000 1.000 1.000 0.855 1.000 0.695 0.265 1.000 0.997 0.699 0.863 0.993	SR 1.000 1.000 1.000 1.000 0.176 1.000 0.000 0.000 0.980 0.118 0.549 0.980	CS 7.07E+2 1.22E+2 9.25E+1 3.03E+3 4.36E+2 1.77E+5 2.48E+3 4.00E+5 2.70E+3 3.01E+4 1.85E+5 1.29E+5 4.91E+4	1.000 1.000 1.000 1.000 1.000 1.000 0.214 0.518 1.000 0.750 0.980 1.000	SR 1.000 1.000 1.000 1.000 1.000 1.000 0.000 0.078 1.000 1.000 0.000 0.0941 1.000	CS 1.73E+2 1.00E+2 8.63E+1 2.91E+3 1.95E+2 5.15E+4 2.61E+3 4.00E+5 3.72E+5 5.33E+3 1.82E+4 2.00E+5 5.31E+4 2.39E+4	1.000 1.000 1.000 1.000 0.056 1.000 0.012 0.005 0.083 0.967 0.125 0.330 0.984	SR 1.000 1.000 1.000 1.000 0.000 0.000 0.000 0.000 0.961 0.000 0.196	CS 1.68E+2 9.57E+1 8.47E+1 8.61E+2 2.07E+2 2.00E+5 1.51E+3 4.00E+5 2.00E+5 1.11E+4 2.00E+5 1.62E+5 1.28E+4	PR 1.000 1.000 1.000 1.000 1.000 1.000 0.038 0.516 1.000 1.000 0.331 1.000	PNPC SR 1.000 1.000 1.000 1.000 1.000 0.000 0.078 1.000 1.000 0.000 1.000 1.000 1.000 1.000	CS 1.62E+2 9.73E+1 8.47E+1 5.14E+3 2.98E+2 1.01E+5 2.86E+3 4.00E+5 3.71E+5 5.17E+3 6.09E+4 2.00E+5 1.11E+5 1.99E+5	PR 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000	1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000	CS 1.66E+2 1.05E+2 8.47E+1 2.50E+4 7.98E+2 5.04E+4 2.71E+4 2.28E+5 7.98E+4 3.44E+4 5.83E+4 1.33E+5 7.49E+4 1.20E+5	PR 1.000 1.000 1.000 1.000 0.999 1.000 0.737 0.401 1.000 1.000 1.000 1.000 1.000	AMC- SR 1.000 1.000 1.000 1.000 0.980 1.000 0.000 1.000 1.000 1.000 0.980 1.000	CS 2.59E+2 9.69E+1 9.45E+1 1.63E+3 2.38E+2 7.39E+4 2.74E+3 4.00E+5 4.00E+5 3.33E+3 9.00E+3 1.15E+5 2.64E+4 1.86E+4	PR 1.000 1.000 1.000 1.000 0.992 1.000 0.803 0.350 1.000 1.000 0.985 0.993 1.000	AMS-2 SR 1.000 1.000 1.000 1.000 0.863 1.000 0.000 1.000 1.000 0.882 0.980 1.000	CS 2.12E+2 1.05E+2 8.55E+1 1.29E+3 2.30E+2 8.49E+4 2.82E+3 4.00E+5 3.58E+3 6.21E+3 7.63E+4 1.50E+4 1.11E+4
F_{1} F_{2} F_{3} F_{4} F_{5} F_{6} F_{7} F_{8} F_{9} F_{10} F_{11} F_{12} F_{13}	PR 1.000 1.000 1.000 1.000 0.855 1.000 0.695 0.265 1.000 0.997 0.699 0.863 0.993 0.605	SR 1.000 1.000 1.000 1.000 0.176 1.000 0.000 0.000 0.980 0.118 0.549 0.980 0.157	CS 7.07E+2 1.22E+2 9.25E+1 3.03E+3 4.36E+2 1.77E+5 2.48E+3 4.00E+5 4.00E+5 2.70E+3 3.01E+4 1.85E+5 1.29E+5 4.91E+4 3.55E+5	1.000 1.000 1.000 1.000 1.000 1.000 0.214 0.518 1.000 0.750 0.980 1.000 1.000	SR 1.000 1.000 1.000 1.000 1.000 1.000 0.000 0.078 1.000 1.000 0.000 0.941 1.000 1.000	CS 1.73E+2 1.00E+2 8.63E+1 2.91E+3 1.95E+2 5.15E+4 2.61E+3 4.00E+5 3.72E+5 5.33E+3 1.82E+4 2.00E+5 5.31E+4 2.39E+4 1.40E+4	1.000 1.000 1.000 1.000 1.000 0.056 1.000 0.012 0.005 0.083 0.967 0.125 0.330 0.984 1.000	SR 1.000 1.000 1.000 1.000 0.000 0.000 0.000 0.000 0.961 0.000 0.196 0.980	CS 1.68E+2 9.57E+1 8.47E+1 8.61E+2 2.07E+2 2.00E+5 1.51E+3 4.00E+5 2.00E+5 2.00E+5 1.11E+4 2.00E+5 1.62E+5 1.28E+4 4.58E+3	PR 1.000 1.000 1.000 1.000 1.000 1.000 1.000 0.038 0.516 1.000 1.000 0.331 1.000 1.000 1.000	PNPC SR 1.000 1.000 1.000 1.000 1.000 0.000 0.078 1.000 1.000 0.000 1.000 1.000 1.000	CS 1.62E+2 9.73E+1 8.47E+1 5.14E+3 2.98E+2 1.01E+5 2.86E+3 4.00E+5 3.71E+5 5.17E+3 6.09E+4 2.00E+5 1.11E+5 1.99E+5 2.22E+5	PR 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 0.975 1.000 0.743	1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 0.804 1.000 0.235	CS 1.66E+2 1.05E+2 8.47E+1 2.50E+4 7.98E+2 5.04E+4 2.71E+4 2.28E+5 7.98E+4 3.44E+4 5.83E+4 1.33E+5 7.49E+4 1.20E+5 3.55E+5	PR 1.000 1.000 1.000 1.000 0.999 1.000 0.737 0.401 1.000 1.000 1.000 1.000 1.000 1.000	AMC	CS 2.59E+2 9.69E+1 9.45E+1 1.63E+3 2.38E+2 7.39E+4 2.74E+3 4.00E+5 3.33E+3 9.00E+3 1.15E+5 2.64E+4 1.86E+4 2.40E+4	PR 1.000 1.000 1.000 1.000 0.992 1.000 0.803 0.350 1.000 0.985 0.993 1.000 0.995	AMS-2 SR 1.000 1.000 1.000 0.863 1.000 0.000 0.000 1.000 1.000 0.882 0.980 1.000 0.980	CS 2.12E+2 1.05E+2 8.55E+1 1.29E+3 2.30E+2 8.49E+4 2.82E+3 4.00E+5 3.58E+3 6.21E+3 7.63E+4 1.11E+4 2.27E+4
F_{1} F_{2} F_{3} F_{4} F_{5} F_{6} F_{7} F_{8} F_{9} F_{10} F_{11} F_{12} F_{13} F_{14}	PR 1.000 1.000 1.000 1.000 0.855 1.000 0.695 0.265 1.000 0.997 0.699 0.863 0.993 0.605 0.990	SR 1.000 1.000 1.000 1.000 0.176 1.000 0.000 0.000 0.980 0.118 0.549 0.980 0.157 0.980	CS 7.07E+2 1.22E+2 9.25E+1 3.03E+3 4.36E+2 1.77E+5 2.48E+3 4.00E+5 4.00E+5 2.70E+3 3.01E+4 1.85E+5 1.29E+5 4.91E+4 3.55E+5 7.53E+4	1.000 1.000 1.000 1.000 1.000 1.000 0.214 0.518 1.000 0.750 0.980 1.000 1.000 1.000	SR 1.000 1.000 1.000 1.000 1.000 1.000 0.000 0.078 1.000 1.000 0.941 1.000 1.000 1.000	CS 1.73E+2 1.00E+2 8.63E+1 2.91E+3 1.95E+2 5.15E+4 2.61E+3 4.00E+5 3.72E+5 5.33E+3 1.82E+4 2.00E+5 5.31E+4 2.39E+4 1.40E+4 3.30E+4	1.000 1.000 1.000 1.000 1.000 0.056 1.000 0.012 0.005 0.083 0.967 0.125 0.330 0.984 1.000	SR 1.000 1.000 1.000 1.000 0.000 0.000 0.000 0.000 0.961 0.000 0.196 0.980 1.000	CS 1.68E+2 9.57E+1 8.47E+1 8.61E+2 2.07E+2 2.00E+5 1.51E+3 4.00E+5 2.00E+5 1.11E+4 2.00E+5 1.62E+5 1.28E+4 4.58E+3 1.14E+4	PR 1.000 1.000 1.000 1.000 1.000 1.000 0.038 0.516 1.000 1.000 0.331 1.000 1.000 0.801	PNPC: SR 1.000 1.000 1.000 1.000 1.000 1.000 0.000 0.078 1.000 1.000 0.000 1.000 1.000 1.000 1.000	CS 1.62E+2 9.73E+1 8.47E+1 5.14E+3 2.98E+2 1.01E+5 2.86E+3 4.00E+5 5.17E+3 6.09E+4 2.00E+5 1.11E+5 1.99E+5 2.22E+5 3.68E+5	PR 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 0.975 1.000 0.743 1.000	MOMN SR 1.000 1.00	CS 1.66E+2 1.05E+2 8.47E+1 2.50E+4 7.98E+2 5.04E+4 2.71E+4 2.28E+5 7.98E+4 3.44E+4 1.33E+5 7.49E+4 1.20E+5 3.55E+5 1.50E+5	PR 1.000 1.000 1.000 1.000 1.000 0.999 1.000 0.737 0.401 1.000 1.000 1.000 1.000 1.000 1.000 1.000	\$\frac{\sqrt{\text{AMC}}}{\sqrt{\text{SR}}}\$ 1.000 1.000 1.000 1.000 0.980 1.000 0.000 1.000 1.000 0.980 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000	CS 2.59E+2 9.69E+1 9.45E+1 1.63E+3 2.38E+2 7.39E+4 2.74E+3 4.00E+5 3.33E+3 9.00E+3 2.64E+4 1.86E+4 2.40E+4 2.79E+4	PR 1.000 1.000 1.000 1.000 0.992 1.000 0.803 0.350 1.000 0.985 0.993 1.000 0.995 1.000	AMS-2 SR 1.000 1.000 1.000 1.000 0.863 1.000 0.000 1.000 1.000 0.882 0.980 1.000 0.980	CS 2.12E+2 1.05E+2 8.55E+1 1.29E+3 2.30E+2 8.49E+4 2.82E+3 4.00E+5 3.58E+3 6.21E+3 7.63E+4 1.11E+4 2.27E+4 1.84E+4
$\begin{array}{c} F_1 \\ F_2 \\ F_3 \\ F_4 \\ F_5 \\ F_6 \\ F_7 \\ F_{10} \\ F_{11} \\ F_{12} \\ F_{13} \\ F_{14} \\ F_{15} \\ F_{16} \\ F_{17} \\ \end{array}$	PR 1.000 1.000 1.000 1.000 0.855 1.000 0.695 0.265 1.000 0.997 0.699 0.863 0.993 0.605 0.990 0.343	SR 1.000 1.000 1.000 1.000 0.176 1.000 0.000 0.000 0.000 0.118 0.549 0.980 0.157 0.980 0.078	CS 7.07E+2 1.22E+2 9.25E+1 3.03E+3 4.36E+2 1.77E+5 2.48E+3 4.00E+5 2.70E+3 3.01E+4 1.85E+5 1.29E+5 4.91E+4 3.55E+5 7.53E+4 3.78E+5	1.000 1.000 1.000 1.000 1.000 1.000 1.000 0.214 0.518 1.000 0.750 0.980 1.000 1.000 1.000	SR 1.000 1.000 1.000 1.000 1.000 1.000 0.000 0.078 1.000 0.000 0.941 1.000 1.000 1.000	CS 1.73E+2 1.00E+2 8.63E+1 2.91E+3 1.95E+2 5.15E+4 2.61E+3 4.00E+5 3.72E+5 5.33E+3 1.82E+4 2.00E+5 5.31E+4 2.39E+4 1.40E+4 3.30E+4 3.13E+4	1.000 1.000 1.000 1.000 0.056 1.000 0.012 0.005 0.083 0.967 0.125 0.330 0.984 1.000 1.000	SR 1.000 1.000 1.000 1.000 0.000 0.000 0.000 0.000 0.961 0.098 0.980 1.000 0.608	CS 1.68E+2 9.57E+1 8.47E+1 8.61E+2 2.07E+2 2.00E+5 1.51E+3 4.00E+5 2.00E+5 1.11E+4 2.00E+5 1.28E+4 4.58E+3 1.14E+4 1.62E+5	PR 1.000 1.000 1.000 1.000 1.000 1.000 0.038 0.516 1.000 1.000 0.331 1.000 1.000 0.801 0.044	PNPC SR 1.000 1.000 1.000 1.000 1.000 0.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000	CS 1.62E+2 9.73E+1 8.47E+1 5.14E+3 2.98E+2 1.01E+5 2.86E+3 4.00E+5 3.71E+5 5.17E+3 6.09E+4 2.00E+5 1.11E+5 1.19E+5 2.22E+5 3.68E+5 4.00E+5	PR 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 0.975 1.000 0.743 1.000 1.000	MOMN SR 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 0.804 1.000 0.235 1.000 1.000	CS 1.66E+2 1.05E+2 8.47E+1 2.50E+4 7.98E+2 5.04E+4 2.71E+4 2.28E+5 7.98E+4 3.44E+4 1.33E+5 7.49E+4 1.20E+5 3.55E+5 1.50E+5 2.84E+5	PR 1.000 1.000 1.000 1.000 0.999 1.000 0.737 0.401 1.000 1.000 1.000 1.000 1.000 1.000 1.000	AMC SR 1.000 1.000 1.000 1.000 0.980 1.000 0.000 1.000 0.980 1.000 0.980 1.000 1.000 1.000 1.000 1.000	CS 2.59E+2 9.69E+1 9.45E+1 1.63E+3 2.38E+2 7.39E+4 2.74E+3 4.00E+5 3.33E+3 9.00E+3 1.15E+5 2.64E+4 1.86E+4 2.40E+4 2.79E+4 3.76E+4	PR 1,000 1,000 1,000 1,000 0,992 1,000 0,803 0,350 1,000 1,000 0,985 0,993 1,000 0,995 1,000 0,988	AMS-1-1000 1.000 1.000 1.000 1.000 0.863 1.000 0.000 1.000 0.000 1.000 0.882 0.980 1.000 0.980 1.000 0.980	CS 2.12E+2 1.05E+2 8.55E+1 1.29E+3 2.30E+2 8.49E+4 2.82E+3 4.00E+5 3.58E+3 6.21E+3 7.63E+4 1.50E+4 1.11E+4 2.27E+4 4.01E+4
$F_1 \\ F_2 \\ F_3 \\ F_4 \\ F_5 \\ F_6 \\ F_7 \\ F_{10} \\ F_{11} \\ F_{12} \\ F_{13} \\ F_{14} \\ F_{15} \\ F_{16} \\ F_{17} \\ F_{18}$	PR 1.000 1.000 1.000 0.855 1.000 0.695 0.265 1.000 0.997 0.699 0.863 0.993 0.605 0.993 0.605 0.990 0.343 0.611	SR 1.000 1.000 1.000 1.000 1.000 0.176 1.000 0.000 0.000 0.000 0.118 0.549 0.980 0.157 0.980 0.078	CS 7.07E+2 1.22E+2 9.25E+1 3.03E+3 4.36E+2 1.77E+5 2.48E+3 4.00E+5 2.70E+3 3.01E+4 1.85E+5 1.29E+5 4.91E+4 3.55E+5 7.53E+4 3.78E+5 2.85E+5	1.000 1.000 1.000 1.000 1.000 1.000 0.214 0.518 1.000 0.750 0.980 1.000 1.000 1.000 1.000	SR 1.000 1.000 1.000 1.000 1.000 1.000 0.000 0.078 1.000 0.000 0.0941 1.000 1.000 1.000 1.000 1.000	CS 1.73E+2 1.00E+2 8.63E+1 2.91E+3 1.95E+2 5.15E+4 2.61E+3 4.00E+5 3.72E+5 5.33E+3 1.82E+4 2.00E+5 5.31E+4 2.39E+4 1.40E+4 3.30E+4 4.39E+4	1.000 1.000 1.000 1.000 0.056 1.000 0.012 0.005 0.083 0.967 0.125 0.330 0.984 1.000 1.000 0.608	SR 1.000 1.000 1.000 1.000 0.000 0.000 0.000 0.000 0.961 1.000 0.961 1.000 0.980 1.000 0.000 0.000 0.096 0.0000 0.000 0.	CS 1.68E+2 9.57E+1 8.47E+1 8.61E+2 2.07E+2 2.00E+5 1.51E+3 4.00E+5 2.00E+5 1.11E+4 2.00E+5 1.62E+5 1.28E+4 4.58E+3 1.14E+4 1.62E+5 4.15E+4	PR 1.000 1.000 1.000 1.000 1.000 1.000 0.038 0.516 1.000 1.000 0.331 1.000 1.000 1.000 0.801 0.044 1.000	PNPC SR 1.000 1.000 1.000 1.000 1.000 0.000 0.000 1.000 0.000 1.000 1.000 1.000 0.0667 0.000 1.000	CS 1.62E+2 9.73E+1 8.47E+1 5.14E+3 2.98E+2 1.01E+5 2.86E+3 4.00E+5 3.71E+5 5.17E+3 6.09E+4 2.00E+5 1.11E+5 1.99E+5 2.22E+5 3.68E+5 4.00E+5 2.50E+5	PR 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 0.975 1.000 0.743 1.000 1.000 1.000	MOMN SR 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 0.804 1.000 0.235 1.000 1.000	CS 1.66E+2 1.05E+2 8.47E+1 2.50E+4 7.98E+2 5.04E+4 2.71E+4 2.28E+5 7.98E+3 3.44E+4 1.33E+5 1.33E+5 3.55E+5 1.50E+5 2.84E+5 1.66E+5	PR 1.000 1.000 1.000 1.000 0.999 1.000 0.737 0.401 1.000 1.000 1.000 1.000 1.000 1.000 1.000	AMC SR 1.000 1.000 1.000 1.000 0.980 1.000 0.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000	CS 2.59E+2 9.69E+1 9.45E+1 1.63E+3 2.38E+2 7.39E+4 2.74E+3 4.00E+5 3.33E+3 9.00E+3 1.15E+5 2.64E+4 1.86E+4 2.40E+4 2.79E+4 3.76E+4 5.34E+4	PR 1.000 1.000 1.000 1.000 1.000 0.992 1.000 0.803 0.350 1.000 0.985 0.993 1.000 0.995 1.000 0.988 1.000	AMS-1-1000 1.000 1.000 1.000 1.000 0.863 1.000 0.000 1.000 0.000 0.882 0.980 1.000 0.980 1.000 0.980 1.000	CS 2.12E+2 1.05E+2 8.55E+1 1.29E+3 2.30E+2 8.49E+4 2.82E+3 4.00E+5 3.58E+3 6.21E+3 7.63E+4 1.11E+4 2.27E+4 1.18E+4 4.01E+4 3.83E+4
$\begin{array}{c} F_1 \\ F_2 \\ F_3 \\ F_4 \\ F_5 \\ F_6 \\ F_7 \\ F_{10} \\ F_{11} \\ F_{12} \\ F_{13} \\ F_{14} \\ F_{15} \\ F_{16} \\ F_{17} \\ F_{18} \\ F_{19} \end{array}$	PR 1.000 1.000 1.000 1.000 0.855 1.000 0.695 0.265 1.000 0.997 0.699 0.605 0.990 0.343 0.611 0.012	SR 1.000 1.000 1.000 1.000 1.000 0.176 1.000 0.000 0.000 0.980 0.118 0.549 0.980 0.157 0.980 0.078	CS 7.07E+2 1.22E+2 9.25E+1 3.03E+3 4.36E+2 1.77E+5 2.48E+3 4.00E+5 4.00E+5 2.70E+3 3.01E+4 1.85E+5 1.29E+5 4.91E+4 3.55E+5 7.53E+4 3.78E+5 2.85E+5 4.00E+5	1.000 1.000 1.000 1.000 1.000 1.000 0.214 0.518 1.000 0.750 0.980 1.000 1.000 1.000 1.000 0.120	SR 1.000 1.000 1.000 1.000 1.000 1.000 0.000 0.078 1.000 0.000 0.000 1.000 0.094 1.000 1.000 1.000 1.000 0.100 0.01 1.000 0.01 1.000	CS 1.73E+2 1.00E+2 8.63E+1 2.91E+3 1.95E+2 5.15E+4 2.61E+3 4.00E+5 3.72E+5 5.33E+3 1.82E+4 2.00E+5 5.31E+4 2.39E+4 1.40E+4 3.30E+4 4.39E+4 4.00E+5	1.000 1.000 1.000 1.000 0.056 1.000 0.012 0.005 0.083 0.967 0.125 0.330 0.984 1.000 0.608 0.941	SR 1.000 1.000 1.000 1.000 0.000 0.000 0.000 0.000 0.961 1.000 0.961 1.000 0.960 1.000 0.960 0.980 1.000 0.000 0.000 0.096 0.000 0.096 0.0	CS 1.68E+2 9.57E+1 8.47E+1 8.61E+2 2.07E+2 2.00E+5 1.51E+3 4.00E+5 2.00E+5 1.11E+4 2.00E+5 1.62E+5 1.62E+5 1.14E+4 4.58E+3 1.14E+4 4.58E+3 4.15E+4 3.92E+5	PR 1.000 1.000 1.000 1.000 1.000 1.000 1.000 0.038 0.516 1.000 0.331 1.000 1.000 0.801 0.004 1.000 0.000	PNPC SR 1.000 1.000 1.000 1.000 1.000 0.000 0.078 1.000 0.000 1.000 1.000 1.000 0.0667 0.000 1.000 0.000	CS 1.62E+2 9.73E+1 8.47E+1 5.14E+3 2.98E+2 1.01E+5 2.86E+3 4.00E+5 5.17E+3 6.09E+4 2.00E+5 1.11E+5 1.99E+5 2.22E+5 3.68E+5 4.00E+5 4.00E+5 4.00E+5	PR 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 0.975 1.000 0.743 1.000 1.000 1.000 1.000 1.000	MOMN SR 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 0.804 1.000 0.235 1.000 1.000 1.000 0.235 1.000 1.000	CS 1.66E+2 1.05E+2 8.47E+1 2.50E+4 7.98E+2 5.04E+4 2.71E+4 2.28E+5 7.98E+4 3.44E+4 1.33E+5 7.49E+4 1.20E+5 3.55E+5 1.50E+5 2.84E+5 1.68E+5 4.00E+5	PR 1.000 1.000 1.000 1.000 0.999 1.000 0.737 0.401 1.000 1.000 0.993 1.000 1.000 1.000 1.000 1.000 1.000	AMC SR 1.000 1.000 1.000 1.000 0.980 1.000 0.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000	CS 2.59E+2 9.69E+1 9.45E+1 1.63E+3 2.38E+2 7.39E+4 2.74E+3 4.00E+5 3.33E+3 9.00E+3 1.15E+5 2.64E+4 2.40E+4 2.79E+4 3.76E+4 1.69E+5	PR 1.000 1.000 1.000 0.992 1.000 0.803 0.350 1.000 0.985 0.993 1.000 0.995 1.000 0.995 1.000 0.988 1.000	AMS	CS 2.12E+2 1.05E+2 8.55E+1 1.29E+3 2.30E+2 8.49E+4 2.82E+3 4.00E+5 3.58E+3 6.21E+3 7.63E+4 1.50E+4 1.11E+4 2.27E+4 4.01E+4 4.01E+4 3.83E+4 1.57E+5
$F_1 \\ F_2 \\ F_3 \\ F_4 \\ F_5 \\ F_6 \\ F_7 \\ F_{10} \\ F_{11} \\ F_{12} \\ F_{13} \\ F_{14} \\ F_{15} \\ F_{16} \\ F_{17} \\ F_{18}$	PR 1.000 1.000 1.000 1.000 0.855 1.000 0.695 0.265 1.000 0.997 0.699 0.605 0.990 0.343 0.611 0.012	SR 1.000 1.000 1.000 1.000 1.000 0.176 1.000 0.000 0.000 0.980 0.118 0.549 0.980 0.157 0.980 0.078	CS 7.07E+2 1.22E+2 9.25E+1 3.03E+3 4.36E+2 1.77E+5 2.48E+3 4.00E+5 2.70E+3 3.01E+4 1.85E+5 1.29E+5 4.91E+4 3.55E+5 7.53E+4 3.78E+5 2.85E+5	1.000 1.000 1.000 1.000 1.000 1.000 0.214 0.518 1.000 0.750 0.980 1.000 1.000 1.000 1.000 0.120	SR 1.000 1.000 1.000 1.000 1.000 1.000 0.000 0.078 1.000 0.000 0.000 1.000 0.094 1.000 1.000 1.000 1.000 0.100 0.01 1.000 0.01 1.000	CS 1.73E+2 1.00E+2 8.63E+1 2.91E+3 1.95E+2 5.15E+4 2.61E+3 4.00E+5 3.72E+5 5.33E+3 1.82E+4 2.00E+5 5.31E+4 2.39E+4 1.40E+4 3.30E+4 4.39E+4 4.00E+5	1.000 1.000 1.000 1.000 0.056 1.000 0.012 0.005 0.083 0.967 0.125 0.330 0.984 1.000 0.608 0.941	SR 1.000 1.000 1.000 1.000 0.000 0.000 0.000 0.000 0.961 1.000 0.961 1.000 0.960 1.000 0.960 0.980 1.000 0.000 0.000	CS 1.68E+2 9.57E+1 8.47E+1 8.61E+2 2.07E+2 2.00E+5 1.51E+3 4.00E+5 2.00E+5 1.11E+4 2.00E+5 1.62E+5 1.62E+5 1.14E+4 4.58E+3 1.14E+4 4.58E+3 4.15E+4 3.92E+5	PR 1.000 1.000 1.000 1.000 1.000 1.000 1.000 0.038 0.516 1.000 0.331 1.000 1.000 0.801 0.004 1.000 0.000	PNPC SR 1.000 1.000 1.000 1.000 1.000 0.000 0.078 1.000 0.000 1.000 1.000 1.000 0.0667 0.000 1.000 0.000	CS 1.62E+2 9.73E+1 8.47E+1 5.14E+3 2.98E+2 1.01E+5 2.86E+3 4.00E+5 5.17E+3 6.09E+4 2.00E+5 1.11E+5 1.99E+5 2.22E+5 3.68E+5 4.00E+5 4.00E+5 4.00E+5	PR 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 0.975 1.000 0.743 1.000 1.000 1.000 1.000 1.000	MOMN SR 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 0.804 1.000 0.235 1.000 1.000 1.000 0.235 1.000 1.000	CS 1.66E+2 1.05E+2 8.47E+1 2.50E+4 7.98E+2 5.04E+4 2.71E+4 2.28E+5 7.98E+4 3.44E+4 1.33E+5 7.49E+4 1.20E+5 3.55E+5 1.50E+5 2.84E+5 1.68E+5 4.00E+5	PR 1.000 1.000 1.000 1.000 0.999 1.000 0.737 0.401 1.000 1.000 0.993 1.000 1.000 1.000 1.000 1.000 1.000	AMC SR 1.000 1.000 1.000 1.000 0.980 1.000 0.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000	CS 2.59E+2 9.69E+1 9.45E+1 1.63E+3 2.38E+2 7.39E+4 2.74E+3 4.00E+5 3.33E+3 9.00E+3 1.15E+5 2.64E+4 2.40E+4 2.79E+4 3.76E+4 1.69E+5	PR 1.000 1.000 1.000 0.992 1.000 0.803 0.350 1.000 0.985 0.993 1.000 0.995 1.000 0.995 1.000 0.988 1.000	AMS	CS 2.12E+2 1.05E+2 8.55E+1 1.29E+3 2.30E+2 8.49E+4 2.82E+3 4.00E+5 3.58E+3 6.21E+3 7.63E+4 1.50E+4 1.11E+4 2.27E+4 4.01E+4 4.01E+4 3.83E+4 1.57E+5

TABLE SXII COMPARISON RESULTS IN PR, SR AND CS BETWEEN LAM-ACOS AND STATE-OF-THE-ART MULTIMODAL METHODS ON TOTAL 20 FUNCTIONS AT ACCURACY LEVEL ϵ =1.0E-02. THE BEST PR IS HIGHLIGHTED IN BOLD.

										1	0E-02										
	1	CDI	₹.		SDE	7		LIPS	3	1.	R2PS	0		NCD	E		NSD)F.	S	elf Co	CDE
F	PR	SR	CS	PR	SR	CS	PR	SR	CS	PR	SR	CS	PR	SR	CS	PR	SR	CS	PR	SR	CS
F_1	1.000		1.60E+2					0.686	1.64E+4	1.000	1.000	1.88E+2	1.000	1.000	6.85E+2				1.000	1.000	
F_2	1.000		4.36E+2						3.04E+2	1.000			1.000		4.58E+2			2.34E+3	1.000	1.000	
F_2	1.000	1.000					1.000		2.60E+2	1.000	1.000		1.000	1.000	2.21E+2	1.000	1.000		1.000	1.000	
F_{A}	1.000		1.61E+4						1.49E+3	1.000			1.000		2.60E+3			2.03E+3	1.000		4.15E+3
F_{r}	1.000		1.52E+3				1.000		5.07E+2	1.000	1.000		1.000		7.84E+2	0.951	0.902	5.31E+3	1.000	1.000	
F_6	1.000		8.56E+4			,				0.708	0.000	0.07			2.00E+5	0.50	0.000				9.45E+4
F_7	0.878		2.00E+5						2.00E+5	0.579	0.000		0.877		2.00E+5	0.053	0.000		0.884	0.020	1.97E+5
F_{o}					0.000	4.00E+5			4.00E+5						4.00E+5	0.000	0.000			0.902	2.10E+5
F_{0}						4.00E+5						4.00E+5			4.00E+5	-	0.000			***	4.00E+5
F_{10}						2.00E+5								0.000		0.000	0.000	2.00E+5	0	0.000	
F_{11}						2.00E+5			5.33E+4					0.216	1.91E+5		0.000			0.647	1.67E+5
F_{12}												2.00E+5					0.000	2.00E+5			
F_{12}															2.00E+5			2.00E+5	0.667		
F_{14}	0.598	0.000	4.00E+5	0.216	0.000	4.00E+5	0.644	0.000	4.00E+5	0.536	0.000	4.00E+5	0.667	0.000	4.00E+5	0.190	0.000	4.00E+5	0.667	0.000	4.00E+5
F_{15}						4.00E+5			4.00E+5	0.194	0.000	4.00E+5	0.468	0.000	4.00E+5	0.125	0.000	4.00E+5	0.404	0.000	4.00E+5
F_{16}	0.010	0.000	4.00E+5	0.108	0.000	4.00E+5	0.307	0.000	4.00E+5	0.183	0.000	4.00E+5	0.667	0.000	4.00E+5	0.170	0.000	4.00E+5	0.667	0.000	4.00E+5
F_{17}	0.000	0.000	4.00E+5	0.076	0.000	4.00E+5	0.162	0.000	4.00E+5	0.034	0.000	4.00E+5	0.250	0.000	4.00E+5	0.108	0.000	4.00E+5	0.284	0.000	4.00E+5
F_{18}	0.167	0.000	4.00E+5	0.026	0.000	4.00E+5	0.121	0.000	4.00E+5	0.052	0.000	4.00E+5	0.513	0.000	4.00E+5	0.163	0.000	4.00E+5	0.392	0.000	4.00E+5
F_{19}	0.000	0.000	4.00E+5	0.110	0.000	4.00E+5	0.005	0.000	4.00E+5	0.005	0.000	4.00E+5	0.368	0.000	4.00E+5	0.098	0.000	4.00E+5	0.221	0.000	4.00E+5
F_{20}	0.000	0.000	4.00E+5					0.007 0.000 4.00E+5						0.137	0.000	4.00E+5					
bprs		7			4			4		5			6			2			7		
		Self CS	DE		LoICI	NE.		LoISI	NE:	PNPCDE			MOMMOP			т	AMC-	1.00	Т	AMS-	A.C.O.
F	PR	SR SR	CS	PR	SR	CS	PR	SR	CS	PR	SR	CS	PR	SR	CS	PR	SR	CS	PR	SR	CS
F_1			7.11E+2			1.73E+2									1.66E+2					1.000	
F_2	1.000		5.40E+2	1.000				0.804	1.00E+2	1.000	1.000	3.97E+2	1.000	1.000	3.92E+2	1.000	1.000	3.22E+2	1.000	1.000	2.78E+2
F_2			3.22E+2				1.000		2.58E+2	1.000	1.000	3.37E+2	1.000		2.98E+2	1.000	1.000		1.000		2.08E+2
F_{Λ}	1.000		5.79E+3				1.000	1.000	1.22E+3	1.000		1.21E+4	1.000		3.04E+4		1.000	3.00E+3	1.000	1.000	
F_{r}	1.000		1.36E+3			6.51E+2			5.33E+2	1.000			1.000		1.10E+4		1.000	0.00-	1.000		5.80E+2
F_{ϵ}			1.91E+5			7.38E+4			2.00E+5	0.966		1.69E+5	1.000	1.000	5.32E+4		0.980	9.91E+4	0.992		9.81E+4
F_7						1.99E+5				0.875	0.000		1.000		5.04E+4		0.000			0.000	
Fo	0.695		4.00E+5			4.00E+5			4.00E+5				1.000		2.56E+5		0.000			0.000	
F_{0}	0.265					4.00E+5				0.473			1.000		2.53E+5			4.00E+5			4.00E+5
F_{10}	1.000		7.03E+3			1.51E+4			2.00E+5	1.000	1.000		1.000	1.000	3.96E+4		1.000		1.000	1.000	6.46E+3
F_{11}			1.95E+5			2.00E+5								0.980	1.15E+5		0.373			0.902	1.05E+5
F_{12}	0.522		2.00E+5			2.00E+5					0.000			0.765	1.55E+5		0.882	1.71E+5	0.983	0.863	9.11E+4
F_{12}	0.618	0.000	2.00E+5	0.667	0.000	2.00E+5	0.167	0.000	2.00E+5	0.667	0.000	2.00E+5	0.958	0.745	1.64E+5	0.667	0.000	2.00E+5	0.693	0.000	2.00E+5
F_{14}	0.627	0.000	4.00E+5							0.660	0.000				4.00E+5	0.667	0.000	4.00E+5	0.667	0.000	4.00E+5
F_{15}	0.392	0.000	4.00E+5	0.422	0.000	4.00E+5	0.125	0.000	4.00E+5	0.304	0.000	4.00E+5	0.647	0.000	4.00E+5	0.740	0.000	4.00E+5	0.748	0.000	4.00E+5
F_{16}	0.422	0.000	4.00E+5			4.00E+5					0.000	4.00E+5	0.650	0.000	4.00E+5	0.667	0.000	4.00E+5	0.667	0.000	4.00E+5
F_{17}	0.162	0.000	4.00E+5	0.248	0.000	4.00E+5	0.076	0.000	4.00E+5	0.000	0.000	4.00E+5	0.515	0.000	4.00E+5	0.613	0.000	4.00E+5	0.708	0.000	4.00E+5
F_{18}	0.085	0.000	4.00E+5	0.225	0.000	4.00E+5	0.157	0.000	4.00E+5	0.173	0.000	4.00E+5	0.497	0.000	4.00E+5	0.667	0.000	4.00E+5	0.667	0.000	4.00E+5
F_{19}	0.000	0.000	4.00E+5	0.086	0.000	4.00E+5	0.027	0.000	4.00E+5	0.000	0.000	4.00E+5	0.223	0.000	4.00E+5	0.500	0.000	4.00E+5	0.502	0.000	4.00E+5
F_{20}	0.000	0.000	4.00E+5	0.125	0.000	4.00E+5	0.088	0.000	4.00E+5	0.000	0.000	4.00E+5	0.125	0.000	4.00E+5	0.272	0.000	4.00E+5	0.348	0.000	4.00E+5
bprs		6			7			4			6			13			9			12	

TABLE SXIII COMPARISON RESULTS IN PR, SR AND CS BETWEEN LAM-ACOS AND STATE-OF-THE-ART MULTIMODAL METHODS ON TOTAL 20 FUNCTIONS AT ACCURACY LEVEL ϵ =1.0E-03. THE BEST PR IS HIGHLIGHTED IN BOLD

										1.	0E-03										
		CDE	3		SDE	3		LIPS	S		R2PS	O		NCD	Е		NSD	Е	S	elf CO	CDE
F	PR	SR	CS	PR	SR	CS	PR	SR	CS	PR	SR	CS	PR	SR	CS	PR	SR	CS	PR	SR	CS
F_1	1.000	1.000	1.60E+2	0.657	0.373	3.24E+4	0.833	0.686	1.64E+4	1.000	1.000	1.88E+2	1.000	1.000	6.85E+2	1.000	1.000	2.39E+2	1.000	1.000	3.55E+2
F_2	1.000	1.000	1.39E+3	0.976	0.961	2.35E+3	1.000	1.000	4.93E+2	1.000	1.000	9.85E+2	1.000	1.000	9.27E+2	0.871	0.804	1.04E+4	1.000	1.000	7.61E+2
F_3		1.000	1.11E+3	1.000	1.000	4.68E+2	0.980	0.980	1.40E+3	1.000	1.000	6.40E+2	1.000	1.000	4.94E+2	1.000	1.000	9.60E+2	1.000	1.000	5.55E+2
F_4	1.000	1.000	2.71E+4	0.284	0.000	5.00E+4	0.990	0.961	4.28E+3	0.966	0.863	1.31E+4	1.000	1.000	3.73E+3	0.265	0.020	4.90E+4	1.000	1.000	7.07E+3
F_5	1.000	1.000	5.42E+3	0.971	0.941	4.09E+3	1.000		9.35E+2	1.000			1.000	1.000	1.57E+3	0.000	0.706	1.53E+4	1.000	1.000	1.97E+3
F_6	1.000		1.11E+5			2.00E+5	0.252	0.000					0.00	0.000		0.000	0.000	2.00E+5	0.7 , =	0.647	1.37E+5
F_7								0.000				2.00E+5		0.000				2.00E+5		0.020	1.97E+5
F_8			4.00E+5							-		4.00E+5		0.000			0.000			0.902	2.35E+5
F_9						4.00E+5						4.00E+5		0.000			0.000		01.07	0.000	4.00E+5
F_{10}			1.96E+4	0.12.7					2.00E+5				0.22	0.902		0.07.0	0.000				8.15E+3
F_{11}			2.00E+5	0.314						0.644				0.078	,	0	0.000			0.255	1.92E+5
F_{12}			2.00E+5			2.00E+5			2.00E+5				_			0	0.000				2.00E+5
F_{13}			2.00E+5 4.00E+5	0.297	0.000	2.00E+5 4.00E+5	****	0.176	1.71E+5 4.00E+5	0.00	0.000		0.00,	0.000		0	0.000	2.00E+5 4.00E+5	0.00,	0.000	2.00E+5 4.00E+5
r_{14}				0.210		4.00E+5		0.000				4.00E+5		0.000	4.00E+5 4.00E+5		0.000	4.00E+5			4.00E+5
F_{15}									4.00E+5					0.000			0.000	4.00E+5	0.0.0	0.000	4.00E+5
$\frac{F_{16}}{F_{17}}$					0.000				4.00E+5	_						0.00		4.00E+5		0.000	4.00E+5
- 1/	0.000	0.000		0.0.0		4.00E+5									4.00E+5	0.00	0.000	4.00E+5	0.00	0.000	4.00E+5
10															4.00E+5			4.00E+5			
F_{20}															4.00E+5			4.00E+5		0.000	
1.50	0.000	0.000	7.00L 7	0.000	0.000	4.00L 13	0.000	0.000	T.00L 7	0.002	0.000	T.00L 7	0.230	0.000	T.00L 7	0.123		7.00L 7	0.007	0.000	4.00L 13
bors		7			1			4			4			7			2.			7	
bprs		7			1			4			4			7			2			7	
	Se	7 elf_CS	SDE		1 LoICI	DE .		LoISI			PNPC	DE	N	7 IOMN	МОР	L	2 AMC-	ACO	L	7 AMS-	ACO
bprs F	Se PR		SDE CS	PR	1 LoICI SR	DE CS	PR		DE CS	PR		CS	PR	SR	1OP CS	L/ PR	AMC-	CS	PR	SR	CS
	PR 1.000	elf_CS SR 1.000	CS 7.15E+2	1.000	SR 1.000	CS 1.73E+2	1.000	LoISI SR 1.000	CS 1.68E+2	PR 1.000	PNPCI SR 1.000	CS 1.62E+2	PR 1.000	SR 1.000	CS 1.66E+2	PR 1.000	AMC-2 SR 1.000	CS 2.59E+2	PR 1.000	SR 1.000	CS 2.14E+2
F F_1 F_2	PR 1.000 1.000	elf_CS SR 1.000 1.000	CS 7.15E+2 1.03E+3	1.000 1.000	SR 1.000 1.000	CS 1.73E+2 1.24E+3	1.000 0.486	LoISI SR 1.000 0.353	CS 1.68E+2 3.25E+4	PR 1.000 1.000	PNPC SR 1.000 1.000	CS 1.62E+2 1.08E+3	PR 1.000 1.000	SR 1.000 1.000	CS 1.66E+2 1.09E+3	PR 1.000 1.000	AMC- SR 1.000 1.000	CS 2.59E+2 5.35E+2	PR 1.000 1.000	SR 1.000 1.000	CS 2.14E+2 4.90E+2
F F_1 F_2 F_3	PR 1.000 1.000 1.000	elf_CS SR 1.000 1.000	CS 7.15E+2 1.03E+3 7.23E+2	1.000 1.000 1.000	SR 1.000 1.000 1.000	CS 1.73E+2 1.24E+3 5.84E+2	1.000 0.486 1.000	LoISI SR 1.000 0.353 1.000	CS 1.68E+2 3.25E+4 7.48E+2	PR 1.000 1.000 1.000	PNPCI SR 1.000 1.000	CS 1.62E+2 1.08E+3 8.33E+2	PR 1.000 1.000 1.000	SR 1.000 1.000 1.000	CS 1.66E+2 1.09E+3 9.58E+2	PR 1.000 1.000 1.000	AMC-2 SR 1.000 1.000	CS 2.59E+2 5.35E+2 3.50E+2	PR 1.000 1.000 1.000	SR 1.000 1.000 1.000	CS 2.14E+2 4.90E+2 3.53E+2
F F_1 F_2 F_3 F_4	PR 1.000 1.000 1.000 0.907	elf_CS SR 1.000 1.000 1.000 0.706	CS 7.15E+2 1.03E+3 7.23E+2 2.97E+4	1.000 1.000 1.000 1.000	SR 1.000 1.000 1.000 1.000	CS 1.73E+2 1.24E+3 5.84E+2 1.48E+4	1.000 0.486 1.000 0.265	LoISI SR 1.000 0.353 1.000 0.020	CS 1.68E+2 3.25E+4 7.48E+2 4.91E+4	PR 1.000 1.000 1.000 1.000	PNPCI SR 1.000 1.000 1.000	CS 1.62E+2 1.08E+3 8.33E+2 2.28E+4	PR 1.000 1.000 1.000 1.000	SR 1.000 1.000 1.000 1.000	CS 1.66E+2 1.09E+3 9.58E+2 3.50E+4	PR 1.000 1.000 1.000 1.000	AMC-A SR 1.000 1.000 1.000	CS 2.59E+2 5.35E+2 3.50E+2 5.04E+3	PR 1.000 1.000 1.000 1.000	SR 1.000 1.000 1.000 1.000	CS 2.14E+2 4.90E+2 3.53E+2 3.50E+3
F F_1 F_2 F_3 F_4 F_5	PR 1.000 1.000 1.000 0.907 1.000	elf_CS SR 1.000 1.000 1.000 0.706 1.000	CS 7.15E+2 1.03E+3 7.23E+2 2.97E+4 3.38E+3	1.000 1.000 1.000 1.000 1.000	SR 1.000 1.000 1.000 1.000 1.000	CS 1.73E+2 1.24E+3 5.84E+2 1.48E+4 1.88E+3	1.000 0.486 1.000 0.265 0.814	LoISI SR 1.000 0.353 1.000 0.020 0.627	CS 1.68E+2 3.25E+4 7.48E+2 4.91E+4 1.91E+4	PR 1.000 1.000 1.000 1.000 1.000	PNPC1 SR 1.000 1.000 1.000 1.000	CS 1.62E+2 1.08E+3 8.33E+2 2.28E+4 3.69E+3	PR 1.000 1.000 1.000 1.000 1.000	SR 1.000 1.000 1.000 1.000 1.000	CS 1.66E+2 1.09E+3 9.58E+2 3.50E+4 1.48E+4	PR 1.000 1.000 1.000 1.000 1.000	AMC-7 SR 1.000 1.000 1.000 1.000	CS 2.59E+2 5.35E+2 3.50E+2 5.04E+3 1.42E+3	PR 1.000 1.000 1.000 1.000 1.000	SR 1.000 1.000 1.000 1.000 1.000	CS 2.14E+2 4.90E+2 3.53E+2 3.50E+3 1.10E+3
F F_1 F_2 F_3 F_4 F_5 F_6	PR 1.000 1.000 0.907 0.760 0.760	elf_CS SR 1.000 1.000 1.000 0.706 1.000 0.020	CS 7.15E+2 1.03E+3 7.23E+2 2.97E+4 3.38E+3 1.97E+5	1.000 1.000 1.000 1.000 1.000 1.000	SR 1.000 1.000 1.000 1.000 1.000	CS 1.73E+2 1.24E+3 5.84E+2 1.48E+4 1.88E+3 9.58E+4	1.000 0.486 1.000 0.265 0.814 0.056	LoISI SR 1.000 0.353 1.000 0.020 0.627 0.000	CS 1.68E+2 3.25E+4 7.48E+2 4.91E+4 1.91E+4 2.00E+5	PR 1.000 1.000 1.000 1.000 1.000 0.806	PNPCI SR 1.000 1.000 1.000 1.000 0.157	CS 1.62E+2 1.08E+3 8.33E+2 2.28E+4 3.69E+3 1.97E+5	PR 1.000 1.000 1.000 1.000 1.000 1.000	SR 1.000 1.000 1.000 1.000 1.000 1.000	CS 1.66E+2 1.09E+3 9.58E+2 3.50E+4 1.48E+4 5.61E+4	PR 1.000 1.000 1.000 1.000 1.000 0.999	AMC-A SR 1.000 1.000 1.000 1.000 1.000 0.980	CS 2.59E+2 5.35E+2 3.50E+2 5.04E+3 1.42E+3 1.10E+5	PR 1.000 1.000 1.000 1.000 0.990	SR 1.000 1.000 1.000 1.000 1.000 0.824	CS 2.14E+2 4.90E+2 3.53E+2 3.50E+3 1.10E+3 1.05E+5
F F_1 F_2 F_3 F_4 F_5 F_6	PR 1.000 1.000 1.000 0.907 1.000 0.760 0.696	elf_CS SR 1.000 1.000 0.706 1.000 0.020 0.000	CS 7.15E+2 1.03E+3 7.23E+2 2.97E+4 3.38E+3 1.97E+5 2.00E+5	1.000 1.000 1.000 1.000 1.000 0.858	SR 1.000 1.000 1.000 1.000 1.000 1.000 0.020	CS 1.73E+2 1.24E+3 5.84E+2 1.48E+4 1.88E+3 9.58E+4 2.00E+5	1.000 0.486 1.000 0.265 0.814 0.056 0.029	LoISI SR 1.000 0.353 1.000 0.020 0.627 0.000 0.000	CS 1.68E+2 3.25E+4 7.48E+2 4.91E+4 1.91E+4 2.00E+5 2.00E+5	PR 1.000 1.000 1.000 1.000 0.806 0.875	PNPC SR 1.000 1.000 1.000 1.000 0.157 0.000	CS 1.62E+2 1.08E+3 8.33E+2 2.28E+4 3.69E+3 1.97E+5 2.00E+5	PR 1.000 1.000 1.000 1.000 1.000 1.000	SR 1.000 1.000 1.000 1.000 1.000 1.000	CS 1.66E+2 1.09E+3 9.58E+2 3.50E+4 1.48E+4 5.61E+4 6.32E+4	PR 1.000 1.000 1.000 1.000 1.000 0.999 0.789	AMC-AMC-AMC-AMC-AMC-AMC-AMC-AMC-AMC-AMC-	CS 2.59E+2 5.35E+2 3.50E+2 5.04E+3 1.42E+3 1.10E+5 2.00E+5	PR 1.000 1.000 1.000 1.000 0.990 0.716	SR 1.000 1.000 1.000 1.000 1.000 0.824 0.000	CS 2.14E+2 4.90E+2 3.53E+2 3.50E+3 1.10E+3 1.05E+5 2.00E+5
$F \\ F_{1} \\ F_{2} \\ F_{3} \\ F_{4} \\ F_{5} \\ F_{6} \\ F_{7} \\ F_{8} \\$	PR 1.000 1.000 1.000 0.907 1.000 0.760 0.696 0.695	elf_CS SR 1.000 1.000 1.000 0.706 1.000 0.020 0.000 0.000	CS 7.15E+2 1.03E+3 7.23E+2 2.97E+4 3.38E+3 1.97E+5 2.00E+5 4.00E+5	1.000 1.000 1.000 1.000 1.000 0.858 0.000	SR 1.000 1.000 1.000 1.000 1.000 0.020 0.000	CS 1.73E+2 1.24E+3 5.84E+2 1.48E+4 1.88E+3 9.58E+4 2.00E+5 4.00E+5	1.000 0.486 1.000 0.265 0.814 0.056 0.029 0.012	LoISI SR 1.000 0.353 1.000 0.020 0.627 0.000 0.000	CS 1.68E+2 3.25E+4 7.48E+2 4.91E+4 1.91E+4 2.00E+5 4.00E+5	PR 1.000 1.000 1.000 1.000 0.806 0.875 0.000	PNPCI SR 1.000 1.000 1.000 1.000 0.157 0.000 0.000	CS 1.62E+2 1.08E+3 8.33E+2 2.28E+4 3.69E+3 1.97E+5 2.00E+5 4.00E+5	PR 1.000 1.000 1.000 1.000 1.000 1.000 1.000	SR 1.000 1.000 1.000 1.000 1.000 1.000 1.000	CS 1.66E+2 1.09E+3 9.58E+2 3.50E+4 1.48E+4 5.61E+4 6.32E+4 2.85E+5	PR 1.000 1.000 1.000 1.000 1.000 0.999 0.789 0.680	AMC-2 SR 1.000 1.000 1.000 1.000 0.980 0.000	CS 2.59E+2 5.35E+2 3.50E+2 5.04E+3 1.42E+3 1.10E+5 2.00E+5 4.00E+5	PR 1.000 1.000 1.000 1.000 1.000 0.990 0.716 0.782	SR 1.000 1.000 1.000 1.000 1.000 0.824 0.000 0.000	CS 2.14E+2 4.90E+2 3.53E+2 3.50E+3 1.10E+3 1.05E+5 2.00E+5 4.00E+5
F F_1 F_2 F_3 F_4 F_5 F_6	PR 1.000 1.000 1.000 0.907 1.000 0.760 0.696 0.695 0.265	elf_CS SR 1.000 1.000 0.706 1.000 0.020 0.000 0.000 0.000	CS 7.15E+2 1.03E+3 7.23E+2 2.97E+4 3.38E+3 1.97E+5 2.00E+5 4.00E+5	1.000 1.000 1.000 1.000 1.000 0.858 0.000 0.421	SR 1.000 1.000 1.000 1.000 1.000 0.020 0.000 0.000	CS 1.73E+2 1.24E+3 5.84E+2 1.48E+4 1.88E+3 9.58E+4 2.00E+5 4.00E+5	1.000 0.486 1.000 0.265 0.814 0.056 0.029 0.012 0.005	LoISI SR 1.000 0.353 1.000 0.020 0.627 0.000 0.000 0.000	CS 1.68E+2 3.25E+4 7.48E+2 4.91E+4 1.91E+4 2.00E+5 4.00E+5 4.00E+5	PR 1.000 1.000 1.000 1.000 0.806 0.875 0.000 0.473	PNPCI SR 1.000 1.000 1.000 1.000 0.157 0.000 0.000 0.000	CS 1.62E+2 1.08E+3 8.33E+2 2.28E+4 3.69E+3 1.97E+5 2.00E+5 4.00E+5	PR 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000	SR 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000	CS 1.66E+2 1.09E+3 9.58E+2 3.50E+4 1.48E+4 5.61E+4 6.32E+4 2.85E+5 2.95E+5	PR 1.000 1.000 1.000 1.000 0.999 0.789 0.680 0.348	AMC SR 1.000 1.000 1.000 1.000 0.980 0.000 0.000 0.000	CS 2.59E+2 5.35E+2 3.50E+2 5.04E+3 1.42E+3 1.10E+5 2.00E+5 4.00E+5	PR 1.000 1.000 1.000 1.000 0.990 0.716 0.782 0.295	SR 1.000 1.000 1.000 1.000 0.824 0.000 0.000	CS 2.14E+2 4.90E+2 3.53E+2 3.50E+3 1.10E+3 1.05E+5 2.00E+5 4.00E+5
$F \\ F_{1} \\ F_{2} \\ F_{3} \\ F_{4} \\ F_{5} \\ F_{6} \\ F_{7} \\ F_{8} \\$	PR 1.000 1.000 1.000 0.907 1.000 0.760 0.696 0.695 0.265 1.000	elf CS SR 1.000 1.000 0.706 1.000 0.020 0.000 0.000 0.000 1.000	CS 7.15E+2 1.03E+3 7.23E+2 2.97E+4 3.38E+3 1.97E+5 2.00E+5 4.00E+5 1.51E+4	1.000 1.000 1.000 1.000 1.000 0.858 0.000 0.421 1.000	SR 1.000 1.000 1.000 1.000 1.000 0.020 0.000 0.000 1.000	CS 1.73E+2 1.24E+3 5.84E+2 1.48E+4 1.88E+3 9.58E+4 2.00E+5 4.00E+5 4.00E+5 3.04E+4	1.000 0.486 1.000 0.265 0.814 0.056 0.029 0.012 0.005 0.083	LoISI SR 1.000 0.353 1.000 0.020 0.627 0.000 0.000 0.000 0.000	CS 1.68E+2 3.25E+4 7.48E+2 4.91E+4 1.91E+4 2.00E+5 2.00E+5 4.00E+5 4.00E+5 2.00E+5	PR 1.000 1.000 1.000 1.000 0.806 0.875 0.000 0.473 1.000	PNPCI SR 1.000 1.000 1.000 1.000 0.157 0.000 0.000 0.000 1.000	CS 1.62E+2 1.08E+3 8.33E+2 2.28E+4 3.69E+3 1.97E+5 2.00E+5 4.00E+5 4.00E+5 2.16E+4	PR 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000	SR 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000	CS 1.66E+2 1.09E+3 9.58E+2 3.50E+4 1.48E+4 5.61E+4 6.32E+4 2.85E+5 2.95E+5 4.24E+4	PR 1.000 1.000 1.000 1.000 1.000 0.999 0.789 0.680 0.348 1.000	AMC-, SR 1.000 1.000 1.000 1.000 0.980 0.000 0.000 0.000	CS 2.59E+2 5.35E+2 3.50E+2 5.04E+3 1.42E+3 1.10E+5 2.00E+5 4.00E+5 9.47E+3	PR 1.000 1.000 1.000 1.000 0.990 0.716 0.782 0.295 1.000	SR 1.000 1.000 1.000 1.000 0.824 0.000 0.000 0.000 1.000	CS 2.14E+2 4.90E+2 3.53E+2 3.50E+3 1.10E+3 1.05E+5 2.00E+5 4.00E+5 9.02E+3
$F \\ F_{1} \\ F_{2} \\ F_{3} \\ F_{4} \\ F_{5} \\ F_{6} \\ F_{7} \\ F_{8} \\$	PR 1.000 1.000 1.000 0.907 1.000 0.696 0.695 0.265 1.000 0.565	elf CS SR 1.000 1.000 0.706 1.000 0.020 0.000 0.000 0.000 1.000 0.000	CS 7.15E+2 1.03E+3 7.23E+2 2.97E+4 3.38E+3 1.97E+5 2.00E+5 4.00E+5 1.51E+4 2.00E+5	1.000 1.000 1.000 1.000 1.000 0.858 0.000 0.421 1.000 0.667	SR 1.000 1.000 1.000 1.000 1.000 0.020 0.000 0.000 1.000 0.000	CS 1.73E+2 1.24E+3 5.84E+2 1.48E+4 1.88E+3 9.58E+4 2.00E+5 4.00E+5 4.00E+5 3.04E+4 2.00E+5	1.000 0.486 1.000 0.265 0.814 0.056 0.029 0.012 0.005 0.083 0.167	LoISI SR 1.000 0.353 1.000 0.020 0.627 0.000 0.000 0.000 0.000 0.000	CS 1.68E+2 3.25E+4 7.48E+2 4.91E+4 1.91E+4 2.00E+5 2.00E+5 4.00E+5 2.00E+5 2.00E+5 2.00E+5	PR 1.000 1.000 1.000 1.000 0.806 0.875 0.000 0.473 1.000 0.667	PNPCI SR 1.000 1.000 1.000 1.000 0.157 0.000 0.000 0.000 1.000	CS 1.62E+2 1.08E+3 8.33E+2 2.28E+4 3.69E+3 1.97E+5 2.00E+5 4.00E+5 4.00E+5 2.16E+4 2.00E+5	PR 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 0.938	SR 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 0.647	CS 1.66E+2 1.09E+3 9.58E+2 3.50E+4 1.48E+4 5.61E+4 6.32E+4 2.85E+5 2.95E+5 4.24E+4 1.73E+5	PR 1.000 1.000 1.000 1.000 0.999 0.789 0.680 0.348 1.000 0.683	AMC-2 SR 1.000 1.000 1.000 1.000 0.980 0.000 0.000 0.000 1.000	CS 2.59E+2 5.35E+2 3.50E+2 5.04E+3 1.42E+3 1.10E+5 2.00E+5 4.00E+5 9.47E+3 2.00E+5	PR 1.000 1.000 1.000 1.000 0.990 0.716 0.782 0.295 1.000 0.974	SR 1.000 1.000 1.000 1.000 0.824 0.000 0.000 0.000 1.000 0.843	CS 2.14E+2 4.90E+2 3.53E+2 3.50E+3 1.10E+3 1.05E+5 2.00E+5 4.00E+5 4.00E+5 9.02E+3 1.40E+5
$F \\ F_{1} \\ F_{2} \\ F_{3} \\ F_{4} \\ F_{5} \\ F_{6} \\ F_{7} \\ F_{8} \\$	PR 1.000 1.000 1.000 0.907 1.000 0.760 0.696 0.265 1.000 0.565 0.409	elf_CS SR 1.000 1.000 0.706 1.000 0.020 0.000 0.000 0.000 0.000 0.000 0.000	CS 7.15E+2 1.03E+3 7.23E+2 2.97E+4 3.38E+3 1.97E+5 2.00E+5 4.00E+5 1.51E+4 2.00E+5 2.00E+5	1.000 1.000 1.000 1.000 1.000 0.858 0.000 0.421 1.000 0.667 0.615	SR 1.000 1.000 1.000 1.000 1.000 0.020 0.000 0.000 0.000 0.000 0.000	CS 1.73E+2 1.24E+3 5.84E+2 1.48E+4 1.88E+3 9.58E+4 2.00E+5 4.00E+5 4.00E+5 3.04E+4 2.00E+5 2.00E+5	1.000 0.486 1.000 0.265 0.814 0.056 0.029 0.012 0.005 0.083 0.167 0.125	LoISI SR 1.000 0.353 1.000 0.020 0.627 0.000 0.000 0.000 0.000 0.000 0.000	CS 1.68E+2 3.25E+4 7.48E+2 4.91E+4 1.91E+4 2.00E+5 2.00E+5 4.00E+5 2.00E+5 2.00E+5 2.00E+5 2.00E+5	PR 1.000 1.000 1.000 1.000 0.806 0.875 0.000 0.473 1.000 0.667 0.015	PNPCI SR 1.000 1.000 1.000 1.000 0.157 0.000 0.000 0.000 0.000 0.000 0.000	CS 1.62E+2 1.08E+3 8.33E+2 2.28E+4 3.69E+3 1.97E+5 2.00E+5 4.00E+5 4.00E+5 2.16E+4 2.00E+5 2.00E+5	PR 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 0.938 0.949	SR 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 0.647 0.627	CS 1.66E+2 1.09E+3 9.58E+2 3.50E+4 1.48E+4 5.61E+4 6.32E+4 2.85E+5 2.95E+5 4.24E+4 1.73E+5 1.73E+5	PR 1.000 1.000 1.000 1.000 0.999 0.789 0.680 0.348 1.000 0.683 0.824	AMC-2 SR 1.000 1.000 1.000 1.000 0.980 0.000 0.000 0.000 0.000 0.000 0.000	CS 2.59E+2 5.35E+2 3.50E+2 5.04E+3 1.42E+3 1.10E+5 2.00E+5 4.00E+5 9.47E+3 2.00E+5 1.99E+5	PR 1.000 1.000 1.000 1.000 0.990 0.716 0.782 0.295 1.000 0.974 0.983	SR 1.000 1.000 1.000 1.000 0.824 0.000 0.000 0.000 1.000 0.843 0.863	CS 2.14E+2 4.90E+2 3.53E+2 3.50E+3 1.10E+3 1.05E+5 2.00E+5 4.00E+5 4.00E+5 9.02E+3 1.40E+5 1.03E+5
$F \\ F_{1} \\ F_{2} \\ F_{3} \\ F_{4} \\ F_{5} \\ F_{6} \\ F_{7} \\ F_{8} \\$	PR 1.000 1.000 1.000 0.907 1.000 0.760 0.696 0.695 0.265 1.000 0.565 0.409 0.493	elf_CS SR 1.000 1.000 0.706 1.000 0.020 0.000 0.000 0.000 0.000 0.000 0.000 0.000	CS 7.15E+2 1.03E+3 7.23E+2 2.97E+4 3.38E+3 1.97E+5 2.00E+5 4.00E+5 1.51E+4 2.00E+5 2.00E+5 2.00E+5	1.000 1.000 1.000 1.000 1.000 0.858 0.000 0.421 1.000 0.667 0.615 0.634	SR 1.000 1.000 1.000 1.000 1.000 0.020 0.000 0.000 1.000 0.000 0.000 0.000	CS 1.73E+2 1.24E+3 5.84E+2 1.48E+4 1.88E+3 9.58E+4 2.00E+5 4.00E+5 3.04E+4 2.00E+5 2.00E+5 2.00E+5	1.000 0.486 1.000 0.265 0.814 0.056 0.029 0.012 0.005 0.083 0.167 0.125 0.167	LoISI SR 1.000 0.353 1.000 0.020 0.627 0.000 0.000 0.000 0.000 0.000 0.000 0.000	CS 1.68E+2 3.25E+4 7.48E+2 4.91E+4 1.91E+4 2.00E+5 2.00E+5 4.00E+5 2.00E+5 2.00E+5 2.00E+5 2.00E+5 2.00E+5	PR 1.000 1.000 1.000 1.000 0.806 0.875 0.000 0.473 1.000 0.667 0.015 0.637	PNPCI SR 1.000 1.000 1.000 1.000 0.157 0.000 0.000 0.000 0.000 0.000 0.000 0.000	CS 1.62E+2 1.08E+3 8.33E+2 2.28E+4 3.69E+3 1.97E+5 2.00E+5 4.00E+5 2.16E+4 2.00E+5 2.00E+5 2.00E+5	PR 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 0.938 0.949 0.667	SR 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 0.647 0.627	CS 1.66E+2 1.09E+3 9.58E+2 3.50E+4 1.48E+4 5.61E+4 6.32E+4 2.85E+5 2.95E+5 4.24E+4 1.73E+5 1.73E+5 2.00E+5	PR 1.000 1.000 1.000 1.000 0.999 0.789 0.680 0.348 1.000 0.683 0.824 0.667	AMC-, SR 1.000 1.000 1.000 1.000 0.980 0.000 0.000 0.000 0.000 0.000 0.000 0.000	CS 2.59E+2 5.35E+2 3.50E+2 5.04E+3 1.42E+3 1.10E+5 2.00E+5 4.00E+5 9.47E+3 2.00E+5 1.99E+5 2.00E+5	PR 1.000 1.000 1.000 1.000 0.990 0.716 0.782 0.295 1.000 0.974 0.983 0.676	SR 1.000 1.000 1.000 1.000 0.824 0.000 0.000 1.000 0.843 0.863 0.000	CS 2.14E+2 4.90E+2 3.53E+2 3.50E+3 1.10E+3 1.05E+5 2.00E+5 4.00E+5 9.02E+3 1.40E+5 1.03E+5 2.00E+5
$F \\ F_{1} \\ F_{2} \\ F_{3} \\ F_{4} \\ F_{5} \\ F_{6} \\ F_{7} \\ F_{8} \\$	PR 1.000 1.000 0.907 1.000 0.760 0.695 0.265 1.000 0.565 0.409 0.493 0.500	elf CS SR 1.000 1.000 0.706 1.000 0.020 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	CS 7.15E+2 1.03E+3 7.23E+2 2.97E+4 3.38E+3 1.97E+5 2.00E+5 4.00E+5 1.51E+4 2.00E+5 2.00E+5 2.00E+5 4.00E+5	1.000 1.000 1.000 1.000 1.000 0.858 0.000 0.421 1.000 0.667 0.615 0.634 0.663	SR 1.000 1.000 1.000 1.000 1.000 0.020 0.000 0.000 0.000 0.000 0.000 0.000	CS 1.73E+2 1.24E+3 5.84E+2 1.48E+4 1.88E+3 9.58E+4 2.00E+5 4.00E+5 3.04E+4 2.00E+5 2.00E+5 2.00E+5 4.00E+5	1.000 0.486 1.000 0.265 0.814 0.056 0.029 0.012 0.005 0.083 0.167 0.125 0.167	LoISI SR 1.000 0.353 1.000 0.020 0.627 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	CS 1.68E+2 3.25E+4 7.48E+2 4.91E+4 1.91E+4 2.00E+5 2.00E+5 4.00E+5 2.00E+5 2.00E+5 2.00E+5 2.00E+5 4.00E+5	PR 1.000 1.000 1.000 1.000 0.806 0.875 0.000 0.473 1.000 0.667 0.015 0.637 0.592	PNPCI SR 1.000 1.000 1.000 1.000 0.157 0.000 0.000 0.000 0.000 0.000 0.000 0.000	CS 1.62E+2 1.08E+3 8.33E+2 2.28E+4 3.69E+3 1.97E+5 2.00E+5 4.00E+5 2.16E+4 2.00E+5 2.00E+5 2.00E+5 4.00E+5	PR 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 0.938 0.949 0.667 0.667	SR 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 0.647 0.627 0.000 0.000	CS 1.66E+2 1.09E+3 9.58E+2 3.50E+4 1.48E+4 5.61E+4 6.32E+4 2.85E+5 2.95E+5 4.24E+4 1.73E+5 1.73E+5 2.00E+5 4.00E+5	PR 1.000 1.000 1.000 1.000 0.999 0.789 0.680 0.348 1.000 0.683 0.824 0.667 0.667	AMC-, SR 1.000 1.000 1.000 1.000 0.980 0.000 0.000 0.000 0.000 0.000 0.098 0.000 0.000	CS 2.59E+2 5.35E+2 3.50E+2 5.04E+3 1.42E+3 1.10E+5 2.00E+5 4.00E+5 9.47E+3 2.00E+5 1.99E+5 2.00E+5 4.00E+5	PR 1.000 1.000 1.000 1.000 0.990 0.716 0.782 0.295 1.000 0.974 0.983 0.676 0.667	SR 1.000 1.000 1.000 1.000 0.824 0.000 0.000 1.000 0.843 0.863 0.000 0.000	CS 2.14E+2 4.90E+2 3.53E+2 3.50E+3 1.10E+3 1.05E+5 2.00E+5 4.00E+5 9.02E+3 1.40E+5 1.03E+5 2.00E+5 4.00E+5
$F \\ F_{1} \\ F_{2} \\ F_{3} \\ F_{4} \\ F_{5} \\ F_{6} \\ F_{7} \\ F_{8} \\$	PR 1.000 1.000 0.907 1.000 0.760 0.695 0.265 1.000 0.565 0.409 0.493 0.500 0.287	elf CS SR 1.000 1.000 0.706 1.000 0.020 0.0000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.0000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.0	CS 7.15E+2 1.03E+3 7.23E+2 2.97E+4 3.38E+3 1.97E+5 2.00E+5 4.00E+5 4.00E+5 2.00E+5 2.00E+5 4.00E+5 4.00E+5 4.00E+5	1.000 1.000 1.000 1.000 1.000 0.858 0.000 0.421 1.000 0.667 0.615 0.634 0.663 0.358	SR 1.000 1.000 1.000 1.000 1.000 0.020 0.000 0.000 0.000 0.000 0.000 0.000 0.000	CS 1.73E+2 1.24E+3 5.84E+2 1.48E+4 1.88E+3 9.58E+4 2.00E+5 4.00E+5 2.00E+5 2.00E+5 2.00E+5 4.00E+5 4.00E+5	1.000 0.486 1.000 0.265 0.814 0.056 0.029 0.012 0.005 0.083 0.167 0.125 0.167 0.125	LoISI SR 1.000 0.353 1.000 0.020 0.627 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	CS 1.68E+2 3.25E+4 7.48E+2 4.91E+4 1.91E+4 2.00E+5 4.00E+5 4.00E+5 2.00E+5 2.00E+5 2.00E+5 2.00E+5 4.00E+5 4.00E+5 4.00E+5	PR 1.000 1.000 1.000 1.000 0.806 0.875 0.000 0.473 1.000 0.667 0.015 0.637 0.592 0.152	PNPCI SR 1.000 1.000 1.000 1.000 0.157 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	CS 1.62E+2 1.08E+3 8.33E+2 2.28E+4 3.69E+3 1.97E+5 2.00E+5 4.00E+5 2.16E+4 2.00E+5 2.00E+5 2.00E+5 4.00E+5 4.00E+5	PR 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 0.938 0.949 0.667 0.667 0.627	SR 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 0.647 0.627 0.000 0.000	CS 1.66E+2 1.09E+3 9.58E+2 3.50E+4 1.48E+4 5.61E+4 6.32E+4 2.85E+5 2.95E+5 1.73E+5 1.73E+5 2.00E+5 4.00E+5	PR 1.000 1.000 1.000 1.000 0.999 0.789 0.680 0.348 1.000 0.683 0.824 0.667 0.667	AMC SR 1.000 1.000 1.000 0.980 0.000 0.000 0.000 0.000 0.098 0.000 0.000 0.000 0.000 0.000	CS 2.59E+2 5.35E+2 3.50E+2 5.04E+3 1.10E+5 2.00E+5 4.00E+5 4.00E+5 2.00E+5 1.99E+5 2.00E+5 4.00E+5 4.00E+5	PR 1.000 1.000 1.000 1.000 1.000 0.990 0.716 0.782 0.295 1.000 0.974 0.983 0.676 0.667 0.748	SR 1.000 1.000 1.000 1.000 0.824 0.000 0.000 0.000 0.843 0.863 0.000 0.000 0.000	CS 2.14E+2 4.90E+2 3.53E+2 3.50E+3 1.10E+3 1.05E+5 2.00E+5 4.00E+5 9.02E+3 1.40E+5 1.03E+5 2.00E+5
$F \\ F_1 \\ F_2 \\ F_3 \\ F_4 \\ F_5 \\ F_6 \\ F_7 \\ F_8 \\ F_9 \\ F_{10} \\ F_{11} \\ F_{12} \\ F_{13} \\ F_{14} \\ F_{15} \\ F_{16}$	PR 1.000 1.000 1.000 0.907 1.000 0.760 0.696 0.695 0.265 1.000 0.565 0.409 0.493 0.500 0.287 0.232	elf CS SR 1.000 1.000 0.706 1.000 0.020 0.0000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.0000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.0000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.0000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.0000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.0000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.0000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.0000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.0000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.0000 0.000 0	CS 7.15E+2 1.03E+3 7.23E+2 2.97E+4 3.38E+3 1.97E+5 2.00E+5 4.00E+5 2.00E+5 2.00E+5 2.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5	1.000 1.000 1.000 1.000 1.000 0.858 0.000 0.421 1.000 0.667 0.615 0.634 0.663 0.358 0.621	SR 1.000 1.000 1.000 1.000 1.000 0.020 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	CS 1.73E+2 1.24E+3 5.84E+2 1.48E+4 1.88E+3 9.58E+4 2.00E+5 4.00E+5 2.00E+5 2.00E+5 2.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5	1.000 0.486 1.000 0.265 0.814 0.056 0.029 0.012 0.005 0.167 0.125 0.167 0.125 0.167	LoISI SR 1.000 0.353 1.000 0.020 0.627 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	CS 1.68E+2 3.25E+4 7.48E+2 4.91E+4 1.91E+4 2.00E+5 4.00E+5 4.00E+5 2.00E+5 2.00E+5 2.00E+5 2.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5	PR 1.000 1.000 1.000 1.000 0.806 0.875 0.000 0.473 1.000 0.667 0.015 0.637 0.592 0.152 0.010	PNPCI SR 1.000 1.000 1.000 1.000 0.157 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	CS 1.62E+2 1.08E+3 8.33E+2 2.28E+4 3.69E+3 1.97E+5 2.00E+5 4.00E+5 2.16E+4 2.00E+5 2.00E+5 2.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5	PR 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 0.938 0.949 0.667 0.667 0.627 0.650	SR 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 0.647 0.627 0.000 0.000 0.000	CS 1.66E+2 1.09E+3 9.58E+2 3.50E+4 1.48E+4 5.61E+4 6.32E+4 2.85E+5 2.95E+5 1.73E+5 1.73E+5 2.00E+5 4.00E+5 4.00E+5	PR 1.000 1.000 1.000 1.000 0.999 0.789 0.680 0.348 1.000 0.683 0.824 0.667 0.740 0.667	AMC SR 1.000 1.000 1.000 1.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	CS 2.59E+2 5.35E+2 3.50E+2 5.04E+3 1.42E+3 1.10E+5 2.00E+5 4.00E+5 9.47E+3 2.00E+5 1.99E+5 2.00E+5 4.00E+5 4.00E+5 4.00E+5	PR 1.000 1.000 1.000 1.000 1.000 0.990 0.716 0.782 0.295 1.000 0.974 0.983 0.676 0.667 0.748	SR 1.000 1.000 1.000 1.000 0.824 0.000 0.000 0.000 0.843 0.863 0.000 0.000 0.000	CS 2.14E+2 4.90E+2 3.53E+2 3.50E+3 1.10E+3 1.05E+5 2.00E+5 4.00E+5 1.03E+5 1.03E+5 2.00E+5 4.00E+5 4.00E+5 4.00E+5
$F \\ F_1 \\ F_2 \\ F_3 \\ F_4 \\ F_5 \\ F_6 \\ F_7 \\ F_8 \\ F_9 \\ F_{10} \\ F_{11} \\ F_{12} \\ F_{13} \\ F_{14} \\ F_{15} \\ F_{16}$	PR 1.000 1.000 1.000 0.907 1.000 0.760 0.696 0.695 0.265 1.000 0.565 0.409 0.493 0.500 0.287 0.232 0.103	elf CS SR 1.000 1.000 0.706 1.000 0.020 0.0000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.0000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.0000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.0000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.0000 0.0000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.0000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.0000 0.0000 0.0000 0.000 0.0000 0.000 0.000 0.000 0.000	CS 7.15E+2 1.03E+3 7.23E+2 2.97E+4 3.38E+3 1.97E+5 2.00E+5 4.00E+5 4.00E+5 2.00E+5 2.00E+5 4.00E+5 4.00E+5 4.00E+5	1.000 1.000 1.000 1.000 1.000 0.858 0.000 0.421 1.000 0.667 0.615 0.634 0.663 0.358 0.621 0.238	SR 1.000 1.000 1.000 1.000 1.000 0.020 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	CS 1.73E+2 1.24E+3 5.84E+2 1.48E+4 1.88E+3 9.58E+4 2.00E+5 4.00E+5 3.04E+4 2.00E+5 2.00E+5 2.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5	1.000 0.486 1.000 0.265 0.814 0.056 0.029 0.012 0.005 0.167 0.125 0.167 0.125 0.167	LoISI SR 1.000 0.353 1.000 0.020 0.000 0.0	CS 1.68E+2 3.25E+4 7.48E+2 4.91E+4 1.91E+4 2.00E+5 4.00E+5 2.00E+5 2.00E+5 2.00E+5 2.00E+5 2.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5	PR 1.000 1.000 1.000 1.000 0.806 0.875 0.000 0.473 1.000 0.667 0.015 0.637 0.592 0.152 0.010 0.000	PNPCI SR 1.000 1.000 1.000 1.000 0.157 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	CS 1.62E+2 1.08E+3 8.33E+2 2.28E+4 3.69E+3 1.97E+5 2.00E+5 4.00E+5 2.16E+4 2.00E+5 2.00E+5 2.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5	PR 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 0.938 0.949 0.667 0.667 0.627 0.650 0.512	SR 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 0.647 0.000 0.000 0.000 0.000 0.000	CS 1.66E+2 1.09E+3 9.58E+2 3.50E+4 1.48E+4 5.61E+4 6.32E+4 2.85E+5 2.95E+5 4.24E+4 1.73E+5 2.00E+5 4.00E+5 4.00E+5 4.00E+5	PR 1.000 1.000 1.000 1.000 0.999 0.789 0.680 0.348 1.000 0.683 0.824 0.667 0.667 0.740 0.667 0.608	AMC SR 1.000 1.000 1.000 1.000 0.980 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	CS 2.59E+2 5.35E+2 3.50E+2 5.04E+3 1.42E+3 1.10E+5 2.00E+5 4.00E+5 9.47E+3 2.00E+5 2.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5	PR 1.000 1.000 1.000 1.000 0.990 0.716 0.782 0.295 1.000 0.974 0.983 0.676 0.667 0.748 0.667	SR 1.000 1.000 1.000 1.000 0.824 0.000 0.000 1.000 0.843 0.863 0.000 0.000 0.000 0.000 0.000	CS 2.14E+2 4.90E+2 3.53E+2 3.50E+3 1.10E+3 1.05E+5 2.00E+5 4.00E+5 1.03E+5 2.00E+5 1.03E+5 2.00E+5 4.00E+5 4.00E+5 4.00E+5
$F \\ F_1 \\ F_2 \\ F_3 \\ F_4 \\ F_5 \\ F_6 \\ F_7 \\ F_8 \\ F_9 \\ F_{10} \\ F_{11} \\ F_{12} \\ F_{13} \\ F_{14} \\ F_{15} \\ F_{16}$	PR 1.000 1.000 1.000 0.907 1.000 0.760 0.696 0.695 0.265 1.000 0.565 0.409 0.493 0.500 0.287 0.232 0.103 0.016	elf CSS R 1.000 1.000 1.000 0.706 1.000 0.0000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.0000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.0000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.0000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.0000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.0000 0.0000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.0000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.0	CS 7.15E+2 1.03E+3 7.23E+2 2.97E+4 3.38E+3 1.97E+5 2.00E+5 4.00E+5 2.00E+5 2.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5	1.000 1.000 1.000 1.000 0.858 0.000 0.421 1.000 0.667 0.615 0.634 0.663 0.358 0.621 0.238	SR 1.000 1.000 1.000 1.000 1.000 0.020 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	CS 1.73E+2 1.24E+3 5.84E+2 1.48E+4 1.88E+3 9.58E+4 2.00E+5 4.00E+5 3.04E+4 2.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5	1.000 0.486 1.000 0.265 0.814 0.056 0.029 0.012 0.005 0.083 0.167 0.125 0.167 0.125 0.167 0.175	LoISI SR 1.000 0.353 1.000 0.020 0.000 0.0	CS 1.68E+2 3.25E+4 7.48E+2 4.91E+4 1.91E+4 2.00E+5 4.00E+5 4.00E+5 2.00E+5 2.00E+5 2.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5	PR 1.000 1.000 1.000 1.000 0.806 0.875 0.000 0.473 1.000 0.667 0.015 0.637 0.592 0.152 0.010 0.000 0.160	PNPCI SR 1.000 1.000 1.000 1.000 0.157 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	CS 1.62E+2 1.08E+3 8.33E+2 2.28E+4 3.69E+3 1.97E+5 2.00E+5 4.00E+5 2.00E+5 2.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5	PR 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 0.938 0.949 0.667 0.667 0.627 0.650 0.512 0.497	SR 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 0.647 0.627 0.000 0.000 0.000 0.000 0.000 0.000	CS 1.66E+2 1.09E+3 9.58E+2 3.50E+4 1.48E+4 5.61E+4 6.32E+4 2.85E+5 2.95E+5 4.24E+4 1.73E+5 2.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5	PR 1.000 1.000 1.000 1.000 0.999 0.789 0.680 0.348 1.000 0.683 0.824 0.667 0.740 0.667 0.740 0.667	AMC SR 1.000 1.000 1.000 1.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	CS 2.59E+2 5.35E+2 3.50E+2 5.04E+3 1.42E+3 1.10E+5 2.00E+5 4.00E+5 9.47E+3 2.00E+5 1.99E+5 2.00E+5 4.00E+5 4.00E+5 4.00E+5	PR 1.000 1.000 1.000 1.000 0.990 0.716 0.782 0.295 1.000 0.974 0.983 0.666 0.667 0.748 0.667	SR 1.000 1.000 1.000 1.000 1.000 0.824 0.000 0.000 0.000 0.843 0.863 0.000 0.000 0.000 0.000 0.000 0.000 0.000	CS 2.14E+2 4.90E+2 3.53E+2 3.50E+3 1.10E+3 1.05E+5 2.00E+5 4.00E+5 9.02E+3 1.40E+5 1.03E+5 2.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5
$F \\ F_1 \\ F_2 \\ F_3 \\ F_4 \\ F_5 \\ F_6 \\ F_7 \\ F_8 \\ F_9 \\ F_{10} \\ F_{11} \\ F_{12} \\ F_{13} \\ F_{14} \\ F_{15} \\ F_{16}$	PR 1.000 1.000 1.000 0.907 1.000 0.760 0.696 0.695 0.265 1.000 0.505 0.409 0.409 0.403 0.500 0.287 0.232 0.103 0.016 0.000	elf CS SR 1.000 1.000 1.000 0.706 1.000 0.0000 0.0	CS 7.15E+2 1.03E+3 7.23E+2 2.97E+4 3.38E+3 1.97E+5 2.00E+5 4.00E+5 2.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5	1.000 1.000 1.000 1.000 1.000 0.858 0.000 0.421 1.000 0.667 0.615 0.634 0.663 0.634 0.663 0.238 0.238	SR 1.000 1.000 1.000 1.000 1.000 0.020 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	CS 1.73E+2 1.24E+3 5.84E+2 1.48E+4 1.88E+3 9.58E+4 2.00E+5 4.00E+5 2.00E+5 2.00E+5 2.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5	1.000 0.486 1.000 0.265 0.814 0.056 0.029 0.012 0.005 0.083 0.167 0.125 0.167 0.167 0.167 0.167	LoISI SR 1.000 0.353 1.000 0.020 0.000 0.0	CS 1.68E+2 3.25E+4 7.48E+2 4.91E+4 1.91E+4 2.00E+5 4.00E+5 4.00E+5 2.00E+5 2.00E+5 2.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5	PR 1.000 1.000 1.000 1.000 0.806 0.875 0.000 0.473 1.000 0.667 0.015 0.637 0.592 0.152 0.010 0.000 0.160 0.000	PNPCI SR 1.000 1.000 1.000 1.000 0.157 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	CS 1.62E+2 1.08E+3 8.33E+2 2.28E+4 3.69E+3 1.97E+5 2.00E+5 4.00E+5 2.00E+5 2.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5	PR 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 0.938 0.667 0.667 0.650 0.512 0.497 0.223	SR 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 0.647 0.000 0.000 0.000 0.000 0.000 0.000 0.000	CS 1.66E+2 1.09E+3 9.58E+2 3.50E+4 1.48E+4 5.61E+4 6.32E+4 2.85E+5 2.95E+5 4.24E+4 1.73E+5 2.00E+5 4.00E+5 4.00E+5 4.00E+5	PR 1.000 1.000 1.000 1.000 0.999 0.789 0.680 0.348 1.000 0.667 0.667 0.740 0.667 0.608 0.668	AMC SR 1.000 1.000 1.000 1.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	CS 2.59E+2 5.35E+2 3.50E+2 5.04E+3 1.42E+3 1.10E+5 2.00E+5 4.00E+5 9.47E+3 2.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5	PR 1.000 1.000 1.000 1.000 0.990 0.716 0.782 0.295 1.000 0.974 0.667 0.748 0.667 0.708	SR 1.000 1.000 1.000 1.000 0.824 0.000 0.000 0.843 0.000 0.000 0.843 0.000 0.000 0.843 0.0000 0.000 0.	CS 2.14E+2 4.90E+2 3.53E+2 3.50E+3 1.10E+3 1.05E+5 2.00E+5 4.00E+5 9.02E+3 1.40E+5 1.03E+5 2.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5
$F_1 \\ F_2 \\ F_3 \\ F_4 \\ F_5 \\ F_6 \\ F_7 \\ F_8 \\ F_9 \\ F_{10} \\ F_{11} \\ F_{12} \\ F_{13} \\ F_{14} \\ F_{15} \\ F_{16}$	PR 1.000 1.000 1.000 0.907 1.000 0.760 0.696 0.695 0.265 1.000 0.505 0.409 0.409 0.403 0.500 0.287 0.232 0.103 0.016 0.000	elf CS SR 1.000 1.000 1.000 0.706 1.000 0.0000 0.0	CS 7.15E+2 1.03E+3 7.23E+2 2.97E+4 3.38E+3 1.97E+5 2.00E+5 4.00E+5 2.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5	1.000 1.000 1.000 1.000 1.000 0.858 0.000 0.421 1.000 0.667 0.615 0.634 0.663 0.634 0.663 0.238 0.238	SR 1.000 1.000 1.000 1.000 1.000 0.020 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	CS 1.73E+2 1.24E+3 5.84E+2 1.48E+4 1.88E+3 9.58E+4 2.00E+5 4.00E+5 2.00E+5 2.00E+5 2.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5	1.000 0.486 1.000 0.265 0.814 0.056 0.029 0.012 0.005 0.083 0.167 0.125 0.167 0.167 0.167 0.167	LoISI SR 1.000 0.353 1.000 0.020 0.000 0.0	CS 1.68E+2 3.25E+4 7.48E+2 4.91E+4 1.91E+4 2.00E+5 4.00E+5 4.00E+5 2.00E+5 2.00E+5 2.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5	PR 1.000 1.000 1.000 1.000 0.806 0.875 0.000 0.473 1.000 0.667 0.015 0.637 0.592 0.152 0.010 0.000 0.160 0.000	PNPCI SR 1.000 1.000 1.000 1.000 0.157 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	CS 1.62E+2 1.08E+3 8.33E+2 2.28E+4 3.69E+3 1.97E+5 2.00E+5 4.00E+5 2.00E+5 2.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5	PR 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 0.938 0.667 0.667 0.650 0.512 0.497 0.223	SR 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 0.647 0.000 0.000 0.000 0.000 0.000 0.000 0.000	CS 1.66E+2 1.09E+3 9.58E+2 3.50E+4 1.48E+4 5.61E+4 6.32E+4 2.85E+5 2.95E+5 4.24E+4 1.73E+5 1.73E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5	PR 1.000 1.000 1.000 1.000 0.999 0.789 0.680 0.348 1.000 0.667 0.667 0.740 0.667 0.608 0.668	AMC SR 1.000 1.000 1.000 1.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	CS 2.59E+2 5.35E+2 3.50E+2 5.04E+3 1.42E+3 1.10E+5 2.00E+5 4.00E+5 9.47E+3 2.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5	PR 1.000 1.000 1.000 1.000 0.990 0.716 0.782 0.295 1.000 0.974 0.667 0.748 0.667 0.708	SR 1.000 1.000 1.000 1.000 0.824 0.000 0.000 0.843 0.000 0.000 0.843 0.000 0.000 0.843 0.0000 0.000 0.	CS 2.14E+2 4.90E+2 3.53E+2 3.50E+3 1.10E+3 1.05E+5 2.00E+5 4.00E+5 9.02E+3 1.40E+5 1.03E+5 2.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5

TABLE SXIV COMPARISON RESULTS IN PR, SR AND CS BETWEEN LAM-ACOS AND STATE-OF-THE-ART MULTIMODAL METHODS ON TOTAL 20 FUNCTIONS AT ACCURACY LEVEL $\epsilon=1.0$ E-04. THE BEST PR IS HIGHLIGHTED IN BOLD.

				FU.	NCTIO	JNS AT A	ACCU.	RACY	LEVEL			HE BEST	PRIS	S HIGI	HLIGHTI	ED IN	ROLD				
-		CDI	-		CDI	,		T ID	7	1.	0E-04	0		NOD	г	ı	NICD	Б		10.00	ODE
F	PR	CDI SR	CS	PR	SDE SR	CS	PR	SR	CS	PR	R2PS SR	CS	PR	NCD SR	CS	PR	NSD:	CS	PR	elf_CC SR	CS
F_1												1.88E+2									
F_2												1.60E+3									
$\frac{F_2}{F_2}$	1.000		3.25E+3												9.84E+2			1.74E+4 1.21E+3			9.55E+2
F_A	1.000											1.17E+3 1.82E+4						_			1.15E+4
F_{ϵ}												2.51E+3									3.66E+3
F_{ϵ}												2.00E+5									
0												2.00E+5									
												4.00E+5									
												4.00E+5									
_												1.56E+5									
10												2.00E+5									
												2.00E+5									
14												2.00E+5									
F_{14}												4.00E+5									4.00E+5
												4.00E+5						4.00E+5			
F_{16}												4.00E+5									
10												4.00E+5									
												4.00E+5									
10												4.00E+5									
17												4.00E+5									
bprs		7			1			4			- 1			7			2			6	
OPIS		/			1			4			4			/						U	
орга			CDE		I JCI	NE.			NE .	l .		DE		/ /OM	4OD	т		A CO	т.		A CO
F		elf_C		DD	LoICI			LoISI			PNPC			/ MOMN			AMC-			AMS-	
F	PR	elf_C	CS	PR	SR	CS	PR	LoISI SR	CS	PR	PNPC SR	CS	PR	SR	CS	PR	AMC-2	CS	PR	AMS-2	CS
F	PR 1.000	elf_Cs SR 1.000	CS 7.15E+2	1.000	SR 1.000	CS 1.73E+2	PR 1.000	LoISI SR 1.000	CS 1.68E+2	PR 1.000	PNPC SR 1.000	CS 1.62E+2	PR 1.000	SR 1.000	CS 1.66E+2	PR 1.000	AMC-2 SR 1.000	CS 2.59E+2	PR 1.000	AMS-2 SR 1.000	CS 2.14E+2
F F_1 F_2	PR 1.000 1.000	elf_CS SR 1.000 1.000	CS 7.15E+2 2.34E+3	1.000 1.000	SR 1.000 1.000	CS 1.73E+2 3.00E+3	PR 1.000 0.235	LoISI SR 1.000 0.039	CS 1.68E+2 4.81E+4	PR 1.000 1.000	PNPC SR 1.000 1.000	CS 1.62E+2 2.68E+3	PR 1.000 1.000	SR 1.000 1.000	CS 1.66E+2 3.09E+3	PR 1.000 1.000	AMC-2 SR 1.000 1.000	CS 2.59E+2 7.87E+2	PR 1.000 1.000	AMS-2 SR 1.000 1.000	CS 2.14E+2 7.78E+2
F F_1 F_2 F_3	PR 1.000 1.000 1.000	elf_C: SR 1.000 1.000	CS 7.15E+2 2.34E+3 1.23E+3	1.000 1.000 1.000	SR 1.000 1.000 1.000	CS 1.73E+2 3.00E+3 1.52E+3	PR 1.000 0.235 1.000	LoISI SR 1.000 0.039 1.000	CS 1.68E+2 4.81E+4 1.10E+3	PR 1.000 1.000 1.000	PNPC SR 1.000 1.000	CS 1.62E+2 2.68E+3 2.42E+3	PR 1.000 1.000 1.000	SR 1.000 1.000 1.000	CS 1.66E+2 3.09E+3 2.47E+3	PR 1.000 1.000 1.000	AMC-A SR 1.000 1.000	CS 2.59E+2 7.87E+2 5.03E+2	PR 1.000 1.000 1.000	AMS-A SR 1.000 1.000	CS 2.14E+2 7.78E+2 5.07E+2
F F_1 F_2 F_3 F_4	PR 1.000 1.000 1.000 0.686	elf_CS SR 1.000 1.000 1.000 0.294	CS 7.15E+2 2.34E+3 1.23E+3 4.39E+4	1.000 1.000 1.000 0.975	SR 1.000 1.000 1.000 0.902	CS 1.73E+2 3.00E+3 1.52E+3 2.71E+4	PR 1.000 0.235 1.000 0.250	LoISI SR 1.000 0.039 1.000 0.000	CS 1.68E+2 4.81E+4 1.10E+3 5.00E+4	PR 1.000 1.000 1.000 1.000	PNPC SR 1.000 1.000 1.000	CS 1.62E+2 2.68E+3 2.42E+3 3.36E+4	PR 1.000 1.000 1.000 1.000	SR 1.000 1.000 1.000 1.000	CS 1.66E+2 3.09E+3 2.47E+3 3.69E+4	PR 1.000 1.000 1.000 1.000	AMC-A SR 1.000 1.000 1.000	CS 2.59E+2 7.87E+2 5.03E+2 6.47E+3	PR 1.000 1.000 1.000 1.000	AMS-A SR 1.000 1.000 1.000	CS 2.14E+2 7.78E+2 5.07E+2 4.62E+3
F F_1 F_2 F_3 F_4 F_5	PR 1.000 1.000 1.000 0.686 0.961	elf_C3 SR 1.000 1.000 1.000 0.294 0.922	CS 7.15E+2 2.34E+3 1.23E+3 4.39E+4 1.26E+4	1.000 1.000 1.000 0.975 1.000	SR 1.000 1.000 1.000 0.902 1.000	CS 1.73E+2 3.00E+3 1.52E+3 2.71E+4 3.50E+3	PR 1.000 0.235 1.000 0.250 0.667	LoISI SR 1.000 0.039 1.000 0.000 0.333	CS 1.68E+2 4.81E+4 1.10E+3 5.00E+4 3.37E+4	PR 1.000 1.000 1.000 1.000 1.000	PNPC SR 1.000 1.000 1.000 1.000	CS 1.62E+2 2.68E+3 2.42E+3 3.36E+4 8.97E+3	PR 1.000 1.000 1.000 1.000 1.000	SR 1.000 1.000 1.000 1.000 1.000	CS 1.66E+2 3.09E+3 2.47E+3 3.69E+4 1.78E+4	PR 1.000 1.000 1.000 1.000 1.000	AMC-A SR 1.000 1.000 1.000 1.000	CS 2.59E+2 7.87E+2 5.03E+2 6.47E+3 2.51E+3	PR 1.000 1.000 1.000 1.000 1.000	AMS-2 SR 1.000 1.000 1.000 1.000	CS 2.14E+2 7.78E+2 5.07E+2 4.62E+3 1.83E+3
F F_1 F_2 F_3 F_4 F_5 F_6	PR 1.000 1.000 1.000 0.686 0.961 0.699	elf_CS SR 1.000 1.000 1.000 0.294 0.922 0.020	CS 7.15E+2 2.34E+3 1.23E+3 4.39E+4 1.26E+4 1.98E+5	1.000 1.000 1.000 0.975 1.000 1.000	SR 1.000 1.000 1.000 0.902 1.000 1.000	CS 1.73E+2 3.00E+3 1.52E+3 2.71E+4 3.50E+3 1.20E+5	PR 1.000 0.235 1.000 0.250 0.667 0.056	LoISI SR 1.000 0.039 1.000 0.000 0.333 0.000	CS 1.68E+2 4.81E+4 1.10E+3 5.00E+4 3.37E+4 2.00E+5	PR 1.000 1.000 1.000 1.000 1.000 0.537	PNPCI SR 1.000 1.000 1.000 1.000 1.000 0.000	CS 1.62E+2 2.68E+3 2.42E+3 3.36E+4 8.97E+3 2.00E+5	PR 1.000 1.000 1.000 1.000 1.000	SR 1.000 1.000 1.000 1.000 1.000	CS 1.66E+2 3.09E+3 2.47E+3 3.69E+4 1.78E+4 5.89E+4	PR 1.000 1.000 1.000 1.000 0.999	AMC-2 SR 1.000 1.000 1.000 1.000 1.000 0.980	CS 2.59E+2 7.87E+2 5.03E+2 6.47E+3 2.51E+3 1.14E+5	PR 1.000 1.000 1.000 1.000 1.000	AMS-2 SR 1.000 1.000 1.000 1.000 1.000 0.824	CS 2.14E+2 7.78E+2 5.07E+2 4.62E+3 1.83E+3 1.07E+5
F F_1 F_2 F_3 F_4 F_5 F_6 F_7	PR 1.000 1.000 1.000 0.686 0.961 0.699 0.695	elf_CS SR 1.000 1.000 1.000 0.294 0.922 0.020 0.000	CS 7.15E+2 2.34E+3 1.23E+3 4.39E+4 1.26E+4 1.98E+5 2.00E+5	1.000 1.000 1.000 0.975 1.000 1.000	SR 1.000 1.000 0.902 1.000 1.000 0.000	CS 1.73E+2 3.00E+3 1.52E+3 2.71E+4 3.50E+3 1.20E+5 2.00E+5	PR 1.000 0.235 1.000 0.250 0.667 0.056 0.029	LoISI SR 1.000 0.039 1.000 0.000 0.333 0.000 0.000	CS 1.68E+2 4.81E+4 1.10E+3 5.00E+4 3.37E+4 2.00E+5 2.00E+5	PR 1.000 1.000 1.000 1.000 0.537 0.874	PNPC SR 1.000 1.000 1.000 1.000 0.000 0.000	CS 1.62E+2 2.68E+3 2.42E+3 3.36E+4 8.97E+3 2.00E+5 2.00E+5	PR 1.000 1.000 1.000 1.000 1.000 1.000	SR 1.000 1.000 1.000 1.000 1.000 1.000	CS 1.66E+2 3.09E+3 2.47E+3 3.69E+4 1.78E+4 5.89E+4 7.65E+4	PR 1.000 1.000 1.000 1.000 0.999 0.743	AMC-7 SR 1.000 1.000 1.000 1.000 0.980 0.000	CS 2.59E+2 7.87E+2 5.03E+2 6.47E+3 2.51E+3 1.14E+5 2.00E+5	PR 1.000 1.000 1.000 1.000 1.000 0.990 0.683	AMS-7 SR 1.000 1.000 1.000 1.000 0.824 0.000	CS 2.14E+2 7.78E+2 5.07E+2 4.62E+3 1.83E+3 1.07E+5 2.00E+5
F F_1 F_2 F_3 F_4 F_5 F_6 F_7 F_8	PR 1.000 1.000 1.000 0.686 0.961 0.699 0.695 0.695	elf_CS SR 1.000 1.000 0.294 0.922 0.020 0.000	CS 7.15E+2 2.34E+3 1.23E+3 4.39E+4 1.26E+4 1.98E+5 2.00E+5 4.00E+5	1.000 1.000 1.000 0.975 1.000 1.000 0.705 0.000	SR 1.000 1.000 1.000 0.902 1.000 1.000 0.000	CS 1.73E+2 3.00E+3 1.52E+3 2.71E+4 3.50E+3 1.20E+5 2.00E+5 4.00E+5	PR 1.000 0.235 1.000 0.250 0.667 0.056 0.029 0.012	LoISI SR 1.000 0.039 1.000 0.000 0.333 0.000 0.000 0.000	CS 1.68E+2 4.81E+4 1.10E+3 5.00E+4 3.37E+4 2.00E+5 4.00E+5	PR 1.000 1.000 1.000 1.000 1.000 0.537 0.874 0.000	PNPC SR 1.000 1.000 1.000 1.000 0.000 0.000 0.000	CS 1.62E+2 2.68E+3 2.42E+3 3.36E+4 8.97E+3 2.00E+5 4.00E+5	PR 1.000 1.000 1.000 1.000 1.000 1.000 1.000	SR 1.000 1.000 1.000 1.000 1.000 1.000 1.000	CS 1.66E+2 3.09E+3 2.47E+3 3.69E+4 1.78E+4 5.89E+4 7.65E+4 3.12E+5	PR 1.000 1.000 1.000 1.000 1.000 0.999 0.743 0.639	SR 1.000 1.000 1.000 1.000 1.000 0.980 0.000	CS 2.59E+2 7.87E+2 5.03E+2 6.47E+3 2.51E+3 1.14E+5 2.00E+5 4.00E+5	PR 1.000 1.000 1.000 1.000 0.990 0.683 0.765	AMS-2 SR 1.000 1.000 1.000 1.000 0.824 0.000 0.000	CS 2.14E+2 7.78E+2 5.07E+2 4.62E+3 1.83E+3 1.07E+5 2.00E+5 4.00E+5
F F_1 F_2 F_3 F_4 F_5 F_6 F_7 F_8 F_9	PR 1.000 1.000 1.000 0.686 0.961 0.699 0.695 0.695 0.265	elf_Cs SR 1.000 1.000 0.294 0.922 0.020 0.000 0.000	CS 7.15E+2 2.34E+3 1.23E+3 4.39E+4 1.26E+4 1.98E+5 2.00E+5 4.00E+5	1.000 1.000 1.000 0.975 1.000 1.000 0.705 0.000 0.187	SR 1.000 1.000 1.000 0.902 1.000 1.000 0.000 0.000	CS 1.73E+2 3.00E+3 1.52E+3 2.71E+4 3.50E+3 1.20E+5 2.00E+5 4.00E+5	PR 1.000 0.235 1.000 0.250 0.667 0.056 0.029 0.012 0.005	LoISI SR 1.000 0.039 1.000 0.000 0.333 0.000 0.000 0.000 0.000	CS 1.68E+2 4.81E+4 1.10E+3 5.00E+4 3.37E+4 2.00E+5 4.00E+5 4.00E+5	PR 1.000 1.000 1.000 1.000 0.537 0.874 0.000 0.472	PNPC SR 1.000 1.000 1.000 1.000 0.000 0.000 0.000 0.000	CS 1.62E+2 2.68E+3 2.42E+3 3.36E+4 8.97E+3 2.00E+5 4.00E+5 4.00E+5	PR 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000	SR 1.000 1.000 1.000 1.000 1.000 1.000 1.000 0.902	CS 1.66E+2 3.09E+3 2.47E+3 3.69E+4 1.78E+4 5.89E+4 7.65E+4 3.12E+5 3.65E+5	PR 1.000 1.000 1.000 1.000 0.999 0.743 0.639 0.290	AMC-2 SR 1.000 1.000 1.000 1.000 0.980 0.000 0.000	CS 2.59E+2 7.87E+2 5.03E+2 6.47E+3 2.51E+3 1.14E+5 2.00E+5 4.00E+5	PR 1.000 1.000 1.000 1.000 0.990 0.683 0.765 0.254	AMS-2 SR 1.000 1.000 1.000 1.000 0.824 0.000 0.000	CS 2.14E+2 7.78E+2 5.07E+2 4.62E+3 1.83E+3 1.07E+5 2.00E+5 4.00E+5
F F_1 F_2 F_3 F_4 F_5 F_6 F_7 F_8 F_9	PR 1.000 1.000 0.686 0.961 0.699 0.695 0.695 0.265 0.992	elf CS SR 1.000 1.000 0.294 0.922 0.020 0.000 0.000 0.000	CS 7.15E+2 2.34E+3 1.23E+3 4.39E+4 1.26E+4 1.98E+5 2.00E+5 4.00E+5 4.00E+5 3.54E+4	1.000 1.000 0.975 1.000 1.000 0.705 0.000 0.187 1.000	SR 1.000 1.000 0.902 1.000 1.000 0.000 0.000 0.000 1.000	CS 1.73E+2 3.00E+3 1.52E+3 2.71E+4 3.50E+3 1.20E+5 2.00E+5 4.00E+5 5.26E+4	PR 1.000 0.235 1.000 0.250 0.667 0.056 0.029 0.012 0.005 0.083	LoISI SR 1.000 0.039 1.000 0.000 0.333 0.000 0.000 0.000 0.000 0.000	CS 1.68E+2 4.81E+4 1.10E+3 5.00E+4 3.37E+4 2.00E+5 2.00E+5 4.00E+5 2.00E+5	PR 1.000 1.000 1.000 1.000 0.537 0.874 0.000 0.472 1.000	PNPCI SR 1.000 1.000 1.000 1.000 0.000 0.000 0.000 0.000 1.000	CS 1.62E+2 2.68E+3 2.42E+3 3.36E+4 8.97E+3 2.00E+5 2.00E+5 4.00E+5 4.00E+5 3.45E+4	PR 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000	SR 1.000 1.000 1.000 1.000 1.000 1.000 1.000 0.902 1.000	CS 1.66E+2 3.09E+3 2.47E+3 3.69E+4 1.78E+4 5.89E+4 7.65E+4 3.12E+5 3.65E+5 4.40E+4	PR 1.000 1.000 1.000 1.000 0.999 0.743 0.639 0.290 1.000	AMC-2 SR 1.000 1.000 1.000 1.000 0.980 0.000 0.000 0.000 1.000	CS 2.59E+2 7.87E+2 5.03E+2 6.47E+3 2.51E+3 1.14E+5 2.00E+5 4.00E+5 4.00E+5 1.13E+4	PR 1.000 1.000 1.000 1.000 0.990 0.683 0.765 0.254 1.000	AMS-2 SR 1.000 1.000 1.000 1.000 0.824 0.000 0.000 0.000 1.000	CS 2.14E+2 7.78E+2 5.07E+2 4.62E+3 1.83E+3 1.07E+5 2.00E+5 4.00E+5 4.00E+5 1.08E+4
F F_1 F_2 F_3 F_4 F_5 F_6 F_7 F_8 F_9 F_{10}	PR 1.000 1.000 0.686 0.961 0.699 0.695 0.695 0.265 0.992 0.399	elf CS SR 1.000 1.000 1.000 0.294 0.922 0.020 0.000 0.000 0.000 0.922 0.000	CS 7.15E+2 2.34E+3 1.23E+3 4.39E+4 1.26E+4 1.98E+5 2.00E+5 4.00E+5 4.00E+5 3.54E+4 2.00E+5	1.000 1.000 0.975 1.000 1.000 0.705 0.000 0.187 1.000 0.660	SR 1.000 1.000 0.902 1.000 1.000 0.000 0.000 0.000 1.000 0.000	CS 1.73E+2 3.00E+3 1.52E+3 2.71E+4 3.50E+3 1.20E+5 2.00E+5 4.00E+5 5.26E+4 2.00E+5	PR 1.000 0.235 1.000 0.250 0.667 0.056 0.029 0.012 0.005 0.083 0.167	LoISI SR 1.000 0.039 1.000 0.000 0.333 0.000 0.000 0.000 0.000 0.000 0.000	CS 1.68E+2 4.81E+4 1.10E+3 5.00E+4 3.37E+4 2.00E+5 4.00E+5 4.00E+5 2.00E+5 2.00E+5 2.00E+5	PR 1.000 1.000 1.000 1.000 0.537 0.874 0.000 0.472 1.000 0.660	PNPCI SR 1.000 1.000 1.000 1.000 0.000 0.000 0.000 0.000 1.000 0.000	CS 1.62E+2 2.68E+3 2.42E+3 3.36E+4 8.97E+3 2.00E+5 4.00E+5 4.00E+5 3.45E+4 2.00E+5	PR 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 0.716	SR 1.000 1.000 1.000 1.000 1.000 1.000 1.000 0.902 1.000 0.020	CS 1.66E+2 3.09E+3 2.47E+3 3.69E+4 1.78E+4 5.89E+4 7.65E+4 3.12E+5 3.65E+5 4.40E+4 1.98E+5	PR 1.000 1.000 1.000 1.000 0.999 0.743 0.639 0.290 1.000 0.670	AMC-2 SR 1.000 1.000 1.000 1.000 0.980 0.000 0.000 0.000 1.000 0.000	CS 2.59E+2 7.87E+2 5.03E+2 6.47E+3 2.51E+3 1.14E+5 2.00E+5 4.00E+5 1.13E+4 2.00E+5	PR 1.000 1.000 1.000 1.000 0.990 0.683 0.765 0.254 1.000 0.961	AMS-2 SR 1.000 1.000 1.000 1.000 0.824 0.000 0.000 0.000 1.000 0.765	CS 2.14E+2 7.78E+2 5.07E+2 4.62E+3 1.83E+3 1.07E+5 2.00E+5 4.00E+5 4.00E+5 1.08E+4 1.49E+5
F F_1 F_2 F_3 F_4 F_5 F_6 F_7 F_8 F_9 F_{10} F_{11} F_{12}	PR 1.000 1.000 0.686 0.961 0.699 0.695 0.265 0.265 0.992 0.399 0.321	elf_CS SR 1.000 1.000 0.294 0.922 0.020 0.000 0.000 0.922 0.000 0.000 0.000 0.000	CS 7.15E+2 2.34E+3 1.23E+3 4.39E+4 1.26E+4 1.98E+5 2.00E+5 4.00E+5 3.54E+4 2.00E+5 2.00E+5	1.000 1.000 0.975 1.000 1.000 0.705 0.000 0.187 1.000 0.660 0.495	SR 1.000 1.000 0.902 1.000 1.000 0.000 0.000 0.000 1.000 0.000 0.000	CS 1.73E+2 3.00E+3 1.52E+3 2.71E+4 3.50E+3 1.20E+5 2.00E+5 4.00E+5 5.26E+4 2.00E+5 2.00E+5	PR 1.000 0.235 1.000 0.250 0.667 0.056 0.029 0.012 0.005 0.083 0.167 0.125	LoISI SR 1.000 0.039 1.000 0.000 0.333 0.000 0.000 0.000 0.000 0.000 0.000	CS 1.68E+2 4.81E+4 1.10E+3 5.00E+4 2.00E+5 2.00E+5 4.00E+5 4.00E+5 2.00E+5 2.00E+5 2.00E+5	PR 1.000 1.000 1.000 1.000 0.537 0.874 0.000 0.472 1.000 0.660 0.000	PNPC SR 1.000 1.000 1.000 1.000 0.000 0.000 0.000 0.000 1.000 0.000 0.000	CS 1.62E+2 2.68E+3 2.42E+3 3.36E+4 8.97E+3 2.00E+5 2.00E+5 4.00E+5 4.00E+5 3.45E+4 2.00E+5 2.00E+5	PR 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 0.716 0.939	SR 1.000 1.000 1.000 1.000 1.000 1.000 1.000 0.902 1.000 0.020 0.549	CS 1.66E+2 3.09E+3 2.47E+3 3.69E+4 1.78E+4 5.89E+4 7.65E+4 3.12E+5 3.65E+5 4.40E+4 1.98E+5 1.84E+5	PR 1.000 1.000 1.000 1.000 0.999 0.743 0.639 0.290 1.000 0.670 0.770	AMC-2 SR 1.000 1.000 1.000 1.000 0.980 0.000 0.000 0.000 1.000 0.000 0.000	CS 2.59E+2 7.87E+2 5.03E+2 6.47E+3 2.51E+3 1.14E+5 2.00E+5 4.00E+5 4.00E+5 1.13E+4 2.00E+5 2.00E+5	PR 1.000 1.000 1.000 1.000 0.990 0.683 0.765 0.254 1.000 0.961 0.983	AMS-2 SR 1.000 1.000 1.000 1.000 0.824 0.000 0.000 0.000 1.000 0.765 0.863	CS 2.14E+2 7.78E+2 5.07E+2 4.62E+3 1.83E+3 1.07E+5 2.00E+5 4.00E+5 4.00E+5 1.08E+4 1.49E+5 1.09E+5
F F_1 F_2 F_3 F_4 F_5 F_6 F_7 F_8 F_9 F_{10} F_{11} F_{12} F_{13}	PR 1.000 1.000 1.000 0.686 0.961 0.699 0.695 0.265 0.992 0.399 0.321 0.317	elf_C3 SR 1.000 1.000 0.294 0.922 0.020 0.000 0.000 0.922 0.000 0.000 0.000 0.000 0.000	CS 7.15E+2 2.34E+3 1.23E+3 4.39E+4 1.26E+4 1.98E+5 2.00E+5 4.00E+5 3.54E+4 2.00E+5 2.00E+5 2.00E+5	1.000 1.000 0.975 1.000 0.705 0.000 0.187 1.000 0.660 0.495 0.510	SR 1.000 1.000 0.902 1.000 1.000 0.000 0.000 1.000 0.000 0.000 0.000	CS 1.73E+2 3.00E+3 1.52E+3 2.71E+4 3.50E+3 1.20E+5 2.00E+5 4.00E+5 5.26E+4 2.00E+5 2.00E+5 2.00E+5 2.00E+5	PR 1.000 0.235 1.000 0.250 0.667 0.056 0.029 0.012 0.005 0.083 0.167 0.125 0.167	LoISI SR 1.000 0.039 1.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	CS 1.68E+2 4.81E+4 1.10E+3 5.00E+4 3.37E+4 2.00E+5 2.00E+5 4.00E+5 2.00E+5 2.00E+5 2.00E+5 2.00E+5 2.00E+5	PR 1.000 1.000 1.000 1.000 0.537 0.874 0.000 0.472 1.000 0.660 0.000 0.461	PNPC SR 1.000 1.000 1.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	CS 1.62E+2 2.68E+3 2.42E+3 3.36E+4 8.97E+3 2.00E+5 4.00E+5 4.00E+5 3.45E+4 2.00E+5 2.00E+5 2.00E+5	PR 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 0.716 0.939 0.667	SR 1.000 1.000 1.000 1.000 1.000 1.000 1.000 0.902 1.000 0.020 0.549 0.000	CS 1.66E+2 3.09E+3 2.47E+3 3.69E+4 1.78E+4 5.89E+4 7.65E+4 3.12E+5 3.65E+5 4.40E+4 1.98E+5 1.84E+5 2.00E+5	PR 1.000 1.000 1.000 1.000 0.999 0.743 0.639 0.290 1.000 0.670 0.670	AMC-2 SR 1.000 1.000 1.000 0.980 0.000 0.000 0.000 0.000 0.000 0.000 0.000	CS 2.59E+2 7.87E+2 5.03E+2 6.47E+3 2.51E+3 1.14E+5 2.00E+5 4.00E+5 1.13E+4 2.00E+5 2.00E+5 2.00E+5 2.00E+5	PR 1.000 1.000 1.000 1.000 0.990 0.683 0.765 0.254 1.000 0.961 0.983 0.670	AMS-2 SR 1.000 1.000 1.000 1.000 0.824 0.000 0.000 0.000 0.765 0.863 0.000	CS 2.14E+2 7.78E+2 5.07E+2 4.62E+3 1.83E+3 1.07E+5 2.00E+5 4.00E+5 1.08E+4 1.49E+5 1.09E+5 2.00E+5
F F_{1} F_{2} F_{3} F_{4} F_{5} F_{6} F_{7} F_{8} F_{9} F_{10} F_{11} F_{12} F_{13} F_{14}	PR 1.000 1.000 1.000 0.686 0.961 0.699 0.695 0.265 0.265 0.399 0.321 0.317 0.304	SR 1.000 1.000 0.294 0.020 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	CS 7.15E+2 2.34E+3 1.23E+3 4.39E+4 1.26E+4 1.98E+5 2.00E+5 4.00E+5 3.54E+4 2.00E+5 2.00E+5 2.00E+5 4.00E+5	1.000 1.000 0.975 1.000 1.000 0.705 0.000 0.187 1.000 0.660 0.495 0.510 0.657	SR 1.000 1.000 0.902 1.000 1.000 0.000 0.000 1.000 0.000 0.000 0.000 0.000	CS 1.73E+2 3.00E+3 1.52E+3 2.71E+4 3.50E+3 1.20E+5 2.00E+5 4.00E+5 5.26E+4 2.00E+5 2.00E+5 4.00E+5	PR 1.000 0.235 1.000 0.250 0.667 0.056 0.029 0.012 0.005 0.083 0.167 0.125 0.167	LoISI SR 1.000 0.039 1.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	CS 1.68E+2 4.81E+4 1.10E+3 5.00E+4 3.37E+4 2.00E+5 2.00E+5 4.00E+5 2.00E+5 2.00E+5 2.00E+5 2.00E+5 4.00E+5	PR 1.000 1.000 1.000 1.000 0.537 0.874 0.000 0.472 1.000 0.660 0.000 0.461 0.258	PNPCI SR 1.000 1.000 1.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	CS 1.62E+2 2.68E+3 2.42E+3 3.36E+4 8.97E+3 2.00E+5 4.00E+5 3.45E+4 2.00E+5 2.00E+5 2.00E+5 4.00E+5	PR 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 0.716 0.939 0.667 0.667	SR 1.000 1.000 1.000 1.000 1.000 1.000 1.000 0.902 1.000 0.020 0.549 0.000	CS 1.66E+2 3.09E+3 2.47E+3 3.69E+4 1.78E+4 5.89E+4 7.65E+4 3.12E+5 3.65E+5 1.84E+5 2.00E+5 4.00E+5	PR 1.000 1.000 1.000 1.000 0.999 0.743 0.639 0.290 1.000 0.670 0.667 0.667	AMC-, SR 1.000 1.000 1.000 1.000 0.980 0.000 0.000 0.000 0.000 0.000 0.000 0.000	CS 2.59E+2 7.87E+2 5.03E+2 6.47E+3 2.51E+3 1.14E+5 2.00E+5 4.00E+5 1.13E+4 2.00E+5 2.00E+5 2.00E+5 4.00E+5	PR 1.000 1.000 1.000 1.000 0.990 0.683 0.765 0.254 1.000 0.961 0.983 0.670 0.667	AMS-7 SR 1.000 1.000 1.000 1.000 0.824 0.000 0.000 0.000 0.765 0.863 0.000 0.000	CS 2.14E+2 7.78E+2 5.07E+2 4.62E+3 1.83E+3 1.07E+5 2.00E+5 4.00E+5 4.00E+5 1.08E+4 1.49E+5 1.09E+5 2.00E+5 4.00E+5
$F \\ F_{1} \\ F_{2} \\ F_{3} \\ F_{4} \\ F_{5} \\ F_{6} \\ F_{7} \\ F_{8} \\ F_{9} \\ F_{10} \\ F_{11} \\ F_{12} \\ F_{13} \\ F_{14} \\ F_{15}$	PR 1.000 1.000 1.000 0.686 0.961 0.699 0.695 0.265 0.265 0.399 0.321 0.317 0.304 0.186	SR 1.000 1.000 1.000 0.294 0.022 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	CS 7.15E+2 2.34E+3 1.23E+3 4.39E+4 1.26E+4 1.98E+5 2.00E+5 4.00E+5 2.00E+5 2.00E+5 2.00E+5 2.00E+5 4.00E+5 4.00E+5	1.000 1.000 0.975 1.000 0.705 0.000 0.187 1.000 0.660 0.495 0.510 0.657 0.299	SR 1.000 1.000 0.902 1.000 1.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	CS 1.73E+2 3.00E+3 1.52E+3 2.71E+4 3.50E+3 1.20E+5 2.00E+5 4.00E+5 5.26E+4 2.00E+5 2.00E+5 2.00E+5 4.00E+5 4.00E+5	PR 1.000 0.235 1.000 0.250 0.667 0.056 0.029 0.012 0.005 0.083 0.167 0.125 0.167 0.125	LoISI SR 1.000 0.039 1.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	CS 1.68E+2 4.81E+4 1.10E+3 5.00E+4 3.37E+4 2.00E+5 4.00E+5 4.00E+5 2.00E+5 2.00E+5 2.00E+5 2.00E+5 4.00E+5 4.00E+5 4.00E+5	PR 1.000 1.000 1.000 1.000 0.537 0.874 0.000 0.472 1.000 0.660 0.000 0.461 0.258 0.015	PNPCI SR 1.000 1.000 1.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	CS 1.62E+2 2.68E+3 2.42E+3 3.36E+4 8.97E+3 2.00E+5 4.00E+5 4.00E+5 2.00E+5 2.00E+5 2.00E+5 4.00E+5 4.00E+5 4.00E+5	PR 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 0.716 0.939 0.667 0.618	SR 1.000 1.000 1.000 1.000 1.000 1.000 1.000 0.902 1.000 0.020 0.549 0.000 0.000	CS 1.66E+2 3.09E+3 2.47E+3 3.69E+4 1.78E+4 5.89E+4 7.65E+4 3.12E+5 3.65E+5 4.40E+4 1.98E+5 1.84E+5 2.00E+5 4.00E+5	PR 1.000 1.000 1.000 1.000 0.999 0.743 0.639 0.290 1.000 0.670 0.667 0.667	AMC-, SR 1.000 1.000 1.000 1.000 0.980 0.000 0.000 0.000 0.000 0.000 0.000 0.000	CS 2.59E+2 7.87E+2 5.03E+2 6.47E+3 2.51E+3 1.14E+5 2.00E+5 4.00E+5 4.00E+5 2.00E+5 2.00E+5 2.00E+5 4.00E+5 4.00E+5	PR 1.000 1.000 1.000 1.000 0.990 0.683 0.765 0.254 1.000 0.961 0.983 0.670 0.667 0.748	AMS-7 SR 1.000 1.000 1.000 1.000 0.824 0.000 0.000 0.765 0.863 0.000 0.000	CS 2.14E+2 7.78E+2 5.07E+2 4.62E+3 1.83E+3 1.07E+5 2.00E+5 4.00E+5 1.08E+4 1.49E+5 1.09E+5 2.00E+5 4.00E+5 4.00E+5
$\begin{array}{c} F \\ F_1 \\ F_2 \\ F_3 \\ F_4 \\ F_5 \\ F_6 \\ F_7 \\ F_{10} \\ F_{11} \\ F_{12} \\ F_{13} \\ F_{14} \\ F_{15} \\ F_{16} \\ \end{array}$	PR 1.000 1.000 0.686 0.961 0.699 0.695 0.265 0.265 0.992 0.399 0.321 0.317 0.304 0.186 0.072	SR 1.000 1.000 0.294 0.020 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	CS 7.15E+2 2.34E+3 1.23E+3 4.39E+4 1.26E+4 1.98E+5 2.00E+5 4.00E+5 2.00E+5 2.00E+5 2.00E+5 2.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5	1.000 1.000 0.975 1.000 0.705 0.000 0.187 1.000 0.495 0.510 0.657 0.299 0.559	SR 1.000 1.000 0.902 1.000 1.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	CS 1.73E+2 3.00E+3 1.52E+3 2.71E+4 3.50E+3 1.20E+5 2.00E+5 4.00E+5 5.26E+4 2.00E+5 2.00E+5 2.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5	PR 1.000 0.235 1.000 0.250 0.667 0.056 0.029 0.012 0.005 0.083 0.167 0.125 0.167 0.125	LoISE SR 1.000 0.039 1.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	CS 1.68E+2 4.81E+4 1.10E+3 5.00E+4 3.37E+4 2.00E+5 4.00E+5 4.00E+5 2.00E+5 2.00E+5 2.00E+5 2.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5	PR 1.000 1.000 1.000 1.000 0.537 0.874 0.000 0.472 1.000 0.660 0.000 0.461 0.258 0.015	PNPC SR 1.000 1.000 1.000 1.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	CS 1.62E+2 2.68E+3 2.42E+3 3.36E+4 8.97E+3 2.00E+5 4.00E+5 4.00E+5 3.45E+4 2.00E+5 2.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5	PR 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 0.716 0.939 0.667 0.667 0.618 0.650	SR 1.000 1.000 1.000 1.000 1.000 1.000 0.902 1.000 0.020 0.549 0.000 0.000 0.000	CS 1.66E+2 3.09E+3 2.47E+3 3.69E+4 1.78E+4 5.89E+4 7.65E+4 3.12E+5 3.65E+5 4.40E+4 1.98E+5 2.00E+5 4.00E+5 4.00E+5	PR 1.000 1.000 1.000 1.000 0.999 0.743 0.639 0.290 1.000 0.670 0.667 0.667 0.740 0.667	AMC-, SR 1.000 1.000 1.000 1.000 0.980 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	CS 2.59E+2 7.87E+2 5.03E+2 6.47E+3 2.51E+3 1.14E+5 2.00E+5 4.00E+5 1.13E+4 2.00E+5 2.00E+5 2.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5	PR 1.000 1.000 1.000 1.000 0.990 0.683 0.765 0.254 1.000 0.961 0.983 0.670 0.667 0.748 0.667	AMS-, SR 1.000 1.000 1.000 1.000 0.824 0.000 0.000 0.000 0.765 0.863 0.000 0.000 0.000	CS 2.14E+2 7.78E+2 5.07E+2 4.62E+3 1.83E+3 1.07E+5 2.00E+5 4.00E+5 1.08E+4 1.49E+5 1.09E+5 2.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5
F F ₁ F ₂ F ₃ F ₄ F ₅ F ₆ F ₇ F ₈ F ₉ F ₁₀ F ₁₁ F ₁₂ F ₁₃ F ₁₄ F ₁₅ F ₁₆ F ₁₇	PR 1.000 1.000 0.686 0.961 0.699 0.695 0.695 0.265 0.992 0.399 0.321 0.317 0.304 0.186 0.072 0.056	SR 1.000 1.000 0.294 0.922 0.020 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	CS 7.15E+2 2.34E+3 1.23E+3 4.39E+4 1.26E+4 1.98E+5 2.00E+5 4.00E+5 2.00E+5 2.00E+5 2.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5	1.000 1.000 0.975 1.000 0.705 0.000 0.187 1.000 0.495 0.510 0.657 0.299 0.559 0.233	SR 1.000 1.000 0.902 1.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	CS 1.73E+2 3.00E+3 1.52E+3 2.71E+4 3.50E+3 1.20E+5 2.00E+5 4.00E+5 5.26E+4 2.00E+5 2.00E+5 2.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5	PR 1.000 0.235 1.000 0.250 0.667 0.056 0.029 0.012 0.005 0.083 0.167 0.125 0.167 0.125 0.167 0.125	LoISI SR 1.000 0.039 1.000 0.000 0.333 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	CS 1.68E+2 4.81E+4 1.10E+3 5.00E+4 2.00E+5 2.00E+5 4.00E+5 2.00E+5 2.00E+5 2.00E+5 2.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5	PR 1.000 1.000 1.000 1.000 0.537 0.874 0.000 0.472 1.000 0.660 0.000 0.461 0.258 0.015 0.000 0.000	PNPC SR 1.000 1.000 1.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	CS 1.62E+2 2.68E+3 2.42E+3 3.36E+4 8.97E+3 2.00E+5 4.00E+5 4.00E+5 2.00E+5 2.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5	PR 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 0.716 0.939 0.667 0.618 0.650 0.505	SR 1.000 1.000 1.000 1.000 1.000 1.000 1.000 0.902 1.000 0.020 0.549 0.000 0.000 0.000 0.000	CS 1.66E+2 3.09E+3 2.47E+3 3.69E+4 1.78E+4 5.89E+4 7.65E+4 3.12E+5 3.65E+5 4.40E+4 1.98E+5 2.00E+5 4.00E+5 4.00E+5 4.00E+5	PR 1.000 1.000 1.000 1.000 0.999 0.743 0.639 0.290 1.000 0.670 0.667 0.740 0.667 0.668	AMC SR 1.000 1.000 1.000 0.000 0.980 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	CS 2.59E+2 7.87E+2 5.03E+2 6.47E+3 2.51E+3 1.14E+5 2.00E+5 4.00E+5 1.13E+4 2.00E+5 2.00E+5 2.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5	PR 1.000 1.000 1.000 0.990 0.683 0.765 0.254 1.000 0.961 0.983 0.670 0.667 0.748 0.667 0.708	AMS-, SR 1.000 1.000 1.000 0.200 0.824 0.000 0.000 0.765 0.863 0.000 0.000 0.000 0.000 0.000 0.000	CS 2.14E+2 7.78E+2 5.07E+2 4.62E+3 1.83E+3 1.07E+5 2.00E+5 4.00E+5 1.08E+4 1.49E+5 1.09E+5 2.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5
F F ₁ F ₂ F ₃ F ₄ F ₅ F ₆ F ₇ F ₁₀ F ₁₁ F ₁₂ F ₁₃ F ₁₄ F ₁₅ F ₁₆ F ₁₇ F ₁₆ F ₁₇ F ₁₈	PR 1.000 1.000 1.000 0.686 0.961 0.699 0.695 0.265 0.992 0.321 0.317 0.304 0.186 0.072 0.056 0.003	SR 1.000 1.000 0.294 0.922 0.020 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	CS 7.15E+2 2.34E+3 1.23E+3 4.39E+4 1.26E+4 1.98E+5 2.00E+5 4.00E+5 3.54E+4 2.00E+5 2.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5	1.000 1.000 0.975 1.000 0.705 0.000 0.187 1.000 0.660 0.495 0.510 0.657 0.299 0.559 0.233 0.219	SR 1.000 1.000 0.902 1.000 0.0000 0.	CS 1.73E+2 3.00E+3 1.52E+3 2.71E+4 3.50E+3 1.20E+5 2.00E+5 4.00E+5 2.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5	PR 1.000 0.235 1.000 0.250 0.667 0.056 0.029 0.012 0.005 0.167 0.125 0.167 0.125 0.167 0.125 0.167 0.125	LoISI SR 1.000 0.039 1.000 0.000 0.333 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	CS 1.68E+2 4.81E+4 1.10E+3 5.00E+4 2.00E+5 2.00E+5 4.00E+5 2.00E+5 2.00E+5 2.00E+5 2.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5	PR 1.000 1.000 1.000 1.000 0.537 0.874 0.000 0.472 1.000 0.461 0.258 0.015 0.000 0.000 0.147	PNPC SR 1.000 1.000 1.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	CS 1.62E+2 2.68E+3 2.42E+3 3.36E+4 8.97E+3 2.00E+5 4.00E+5 4.00E+5 2.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5	PR 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 0.716 0.939 0.667 0.667 0.650 0.505	SR 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 0.902 1.000 0.020 0.020 0.000 0.000 0.000 0.000	CS 1.66E+2 3.09E+3 2.47E+3 3.69E+4 1.78E+4 5.89E+4 7.65E+4 3.12E+5 3.65E+5 4.40E+4 1.98E+5 1.84E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5	PR 1.000 1.000 1.000 1.000 0.999 0.743 0.639 0.290 1.000 0.670 0.667 0.740 0.667 0.667 0.608 0.667	AMC	CS 2.59E+2 7.87E+2 5.03E+2 6.47E+3 2.51E+3 1.14E+5 2.00E+5 4.00E+5 1.13E+4 2.00E+5 2.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5	PR 1.000 1.000 1.000 1.000 0.990 0.683 0.765 0.254 1.000 0.961 0.983 0.670 0.667 0.748 0.667 0.708	AMS-, SR 1.000 1.000 1.000 0.824 0.000 0.000 0.765 0.863 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	CS 2.14E+2 7.78E+2 5.07E+2 4.62E+3 1.83E+3 1.07E+5 2.00E+5 4.00E+5 1.08E+4 1.49E+5 1.09E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5
F F ₁ F ₂ F ₃ F ₄ F ₅ F ₆ F ₇ F ₈ F ₁₀ F ₁₁ F ₁₂ F ₁₃ F ₁₄ F ₁₅ F ₁₆ F ₁₇ F ₁₈ F ₁₉	PR 1.000 1.000 1.000 0.686 0.961 0.699 0.695 0.265 0.992 0.321 0.317 0.304 0.186 0.072 0.056 0.003	Relif CS SR 1.0000 1.000 0.294 0.029 0.0000 0.00	CS 7.15E+2 2.34E+3 1.23E+3 4.39E+4 1.26E+4 1.98E+5 2.00E+5 4.00E+5 3.54E+4 2.00E+5 2.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5	1.000 1.000 0.975 1.000 0.705 0.000 0.187 1.000 0.495 0.510 0.657 0.299 0.233 0.219 0.037	SR 1.000 1.000 0.902 1.000 0.0000 0.	CS 1.73E+2 3.00E+3 1.52E+3 2.71E+4 3.50E+3 1.20E+5 2.00E+5 4.00E+5 2.00E+5 2.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5	PR 1.000 0.235 1.000 0.250 0.056 0.029 0.012 0.005 0.083 0.167 0.125 0.167 0.125 0.167 0.125 0.167 0.125 0.167 0.125	LoISI SR 1.000 0.039 1.000 0.0000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.0000 0.0	CS 1.68E+2 4.81E+4 1.10E+3 5.00E+4 2.00E+5 2.00E+5 4.00E+5 2.00E+5 2.00E+5 2.00E+5 2.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5	PR 1.000 1.000 1.000 1.000 1.000 0.537 0.874 0.000 0.472 1.000 0.660 0.000 0.461 0.258 0.015 0.000 0.000 0.147 0.000	PNPC SR 1.000 1.000 1.000 1.000 0.0000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.0000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.0000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.0000 0.	CS 1.62E+2 2.68E+3 2.42E+3 3.36E+4 8.97E+3 2.00E+5 4.00E+5 4.00E+5 2.00E+5 2.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5	PR 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 0.716 0.939 0.667 0.667 0.650 0.505 0.497	SR 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 0.902 1.000 0.549 0.000 0.000 0.000 0.000 0.000 0.000 0.000	CS 1.66E+2 3.09E+3 2.47E+3 3.69E+4 1.78E+4 5.89E+4 7.65E+4 3.12E+5 3.65E+5 4.40E+4 1.98E+5 1.84E+5 2.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5	PR 1.000 1.000 1.000 1.000 0.999 0.743 0.639 0.290 1.000 0.770 0.667 0.740 0.608 0.668 0.668 0.668	AMC SR 1.000 1.000 1.000 1.000 0.980 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	CS 2.59E+2 7.87E+2 5.03E+2 6.47E+3 2.51E+3 1.14E+5 2.00E+5 4.00E+5 1.32E+4 2.00E+5 2.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5	PR 1.000 1.000 1.000 1.000 0.990 0.683 0.765 0.254 1.000 0.961 0.967 0.667 0.748 0.667 0.708 0.667 0.708	AMS-2-5 SR 1.000 1.000 1.000 1.000 1.000 0.824 0.000 0.000 0.000 0.765 0.863 0.000 0.000 0.000 0.000 0.000 0.000 0.000	CS 2.14E+2 7.78E+2 5.07E+2 4.62E+3 1.83E+3 1.07E+5 2.00E+5 4.00E+5 1.09E+5 2.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5
F F ₁ F ₂ F ₃ F ₄ F ₅ F ₆ F ₇ F ₁₀ F ₁₁ F ₁₂ F ₁₃ F ₁₄ F ₁₅ F ₁₆ F ₁₇ F ₁₆ F ₁₇ F ₁₈	PR 1.000 1.000 1.000 0.686 0.961 0.699 0.695 0.265 0.992 0.321 0.317 0.304 0.186 0.072 0.056 0.003	Relif CS SR 1.0000 1.000 0.294 0.029 0.0000 0.00	CS 7.15E+2 2.34E+3 1.23E+3 4.39E+4 1.26E+4 1.98E+5 2.00E+5 4.00E+5 3.54E+4 2.00E+5 2.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5	1.000 1.000 0.975 1.000 0.705 0.000 0.187 1.000 0.495 0.510 0.657 0.299 0.233 0.219 0.037	SR 1.000 1.000 0.902 1.000 0.0000 0.	CS 1.73E+2 3.00E+3 1.52E+3 2.71E+4 3.50E+3 1.20E+5 2.00E+5 4.00E+5 2.00E+5 2.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5	PR 1.000 0.235 1.000 0.250 0.056 0.029 0.012 0.005 0.083 0.167 0.125 0.167 0.125 0.167 0.125 0.167 0.125 0.167 0.125	LoISI SR 1.000 0.039 1.000 0.0000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.0000 0.0	CS 1.68E+2 4.81E+4 1.10E+3 5.00E+4 2.00E+5 2.00E+5 4.00E+5 2.00E+5 2.00E+5 2.00E+5 2.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5	PR 1.000 1.000 1.000 1.000 1.000 0.537 0.874 0.000 0.472 1.000 0.660 0.000 0.461 0.258 0.015 0.000 0.000 0.147 0.000	PNPC SR 1.000 1.000 1.000 1.000 0.0000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.0000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.0000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.0000 0.	CS 1.62E+2 2.68E+3 2.42E+3 3.36E+4 8.97E+3 2.00E+5 4.00E+5 4.00E+5 2.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5	PR 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 0.716 0.939 0.667 0.667 0.650 0.505 0.497	SR 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 0.902 1.000 0.549 0.000 0.000 0.000 0.000 0.000 0.000 0.000	CS 1.66E+2 3.09E+3 2.47E+3 3.69E+4 1.78E+4 5.89E+4 7.65E+4 3.12E+5 3.65E+5 4.40E+4 1.98E+5 1.84E+5 2.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5	PR 1.000 1.000 1.000 1.000 0.999 0.743 0.639 0.290 1.000 0.770 0.667 0.740 0.608 0.668 0.668 0.668	AMC SR 1.000 1.000 1.000 1.000 0.980 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	CS 2.59E+2 7.87E+2 5.03E+2 6.47E+3 2.51E+3 1.14E+5 2.00E+5 4.00E+5 1.32E+4 2.00E+5 2.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5	PR 1.000 1.000 1.000 1.000 0.990 0.683 0.765 0.254 1.000 0.961 0.967 0.667 0.748 0.667 0.708 0.667 0.708	AMS-2-5 SR 1.000 1.000 1.000 1.000 1.000 0.824 0.000 0.000 0.000 0.765 0.863 0.000 0.000 0.000 0.000 0.000 0.000 0.000	CS 2.14E+2 7.78E+2 5.07E+2 4.62E+3 1.83E+3 1.07E+5 2.00E+5 4.00E+5 1.09E+5 2.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5

TABLE SXV COMPARISON RESULTS IN PR, SR AND CS BETWEEN LAM-ACOS AND STATE-OF-THE-ART MULTIMODAL METHODS ON TOTAL 20 FUNCTIONS AT ACCURACY LEVEL ϵ =1.0E-05. THE BEST PR IS HIGHLIGHTED IN BOLD

										1	0E-05										1
		CDI	7		SDF	7		LIPS	2	1.	R2PS	0		NCD	E		NSD	F	9	elf CO	CDE
F	PR	SR	CS	PR	SR	CS	PR	SR	CS	PR	SR	CS	PR	SR	CS	PR	SR	CS	PR	SR	CS
F_1	1.000		1.60E+2			3.24E+4						1.88E+2						2.39E+2			3.55E+2
F_2	1.000		6.68E+3			3.65E+4						2.41E+3						1.95E+4			2.35E+3
F_2	1.000		7.93E+3	1.000		8.33E+2		0.961				1.73E+3				1.000		1.82E+3	1.000	1.000	1.94E+3
F_{Λ}	0.755	0.431	4.87E+4	0.284	0.000	5.00E+4	0.990	0.961				2.51E+4		1.000	6.03E+3	0.235	0.000	5.00E+4	0.990	0.961	1.76E+4
F_5	1.000	1.000	1.93E+4			1.62E+4			2.18E+3							0.608	0.235	3.85E+4	1.000	1.000	6.97E+3
F_6	0.997	0.961	1.65E+5	0.056	0.000	2.00E+5	0.244	0.000	2.00E+5	0.461	0.000	2.00E+5	0.158	0.000	2.00E+5	0.053	0.000	2.00E+5	0.923	0.373	1.82E+5
F_7	0.699	0.000	2.00E+5	0.054	0.000	2.00E+5	0.397	0.000	2.00E+5	0.427	0.000	2.00E+5	0.870	0.000	2.00E+5	0.053	0.000	2.00E+5	0.884	0.020	1.97E+5
F_8	0.000	0.000	4.00E+5	0.015	0.000	4.00E+5	0.084	0.000	4.00E+5	0.011	0.000	4.00E+5	0.000	0.000	4.00E+5	0.013	0.000	4.00E+5	0.993	0.843	2.81E+5
F_9	0.397	0.000	4.00E+5	0.011	0.000	4.00E+5	0.103	0.000	4.00E+5	0.085	0.000	4.00E+5	0.460	0.000	4.00E+5	0.006	0.000	4.00E+5	0.459	0.000	4.00E+5
F_{10}	1.000	1.000	3.57E+4	0.147	0.000	2.00E+5	0.747	0.000	2.00E+5	0.843	0.118	1.84E+5	0.984	0.804	7.13E+4	0.098	0.000	2.00E+5	1.000	1.000	1.62E+4
F_{11}	0.085	0.000	2.00E+5	0.314	0.000	2.00E+5	0.974	0.843	6.10E+4	0.627	0.000	2.00E+5	0.703	0.039	1.97E+5	0.248	0.000	2.00E+5	0.752	0.078	1.98E+5
F_{12}						2.00E+5										0.135	0.000	2.00E+5	0.314	0.000	2.00E+5
F_{13}						2.00E+5											0.000	2.00E+5	0.0.,	0.00	2.00E+5
F_{14}						4.00E+5											0.000	4.00E+5	0.0	0.000	
- 15						4.00E+5											0.000	4.00E+5	0.000	0.000	4.00E+5
10						4.00E+5															
- 1/						4.00E+5										0.12.00	0.000	4.00E+5	0.1	0.000	4.00E+5
10						4.00E+5												4.00E+5		0.000	4.00E+5
F_{19}						4.00E+5														0.000	4.00E+5
F_{20}	0.000	0.000	4.00E+5	0.000	0.000	4.00E+5	0.000	0.000	4.00E+5	0.000	0.000	4.00E+5	0.250	0.000	4.00E+5	0.123	0.000	4.00E+5	0.002	0.000	4.00E+5
					- 1			- 1			1			7							
bprs		5			1			4			4			7			2			5	
	S	5 Self_CS	SDE		1 LoICI	DE .		4 LoISI	DE .		4 PNPC	DE	N	7 IOMN	IOP	L	AMC-	ACO	L	AMS-	ACO
F	S PR		SDE CS	PR	LoICI SR	DE CS	PR		DE CS	PR		DE CS	N PR	7 MOMN SR	IOP CS	L.		ACO CS	L. PR		ACO CS
	PR	self_CS			SR			LoISI SR	CS	PR	PNPCI SR	CS	PR	SR	CS	PR	AMC-	CS	PR	AMS-	
F F_1	PR 1.000	Self_CS SR 1.000	CS 7.15E+2	1.000	SR 1.000	CS 1.73E+2 6.50E+3	1.000 0.204	LoISI SR 1.000 0.000	CS 1.68E+2 5.00E+4	PR 1.000 1.000	PNPC SR 1.000 1.000	CS 1.62E+2 6.60E+3	PR 1.000 1.000	SR 1.000 1.000	CS 1.66E+2	PR 1.000	AMC-2 SR 1.000	CS	PR 1.000	AMS-, SR 1.000	CS
F F_1 F_2 F_3	PR 1.000 0.992 0.980	Self_CS SR 1.000 0.961 0.980	CS 7.15E+2 8.36E+3 4.38E+3	1.000 1.000 1.000	SR 1.000 1.000 1.000	CS 1.73E+2 6.50E+3 3.74E+3	1.000 0.204 1.000	LoISI SR 1.000 0.000 1.000	CS 1.68E+2 5.00E+4 1.50E+3	PR 1.000 1.000 1.000	PNPCI SR 1.000 1.000	CS 1.62E+2 6.60E+3 5.37E+3	PR 1.000 1.000 1.000	SR 1.000 1.000 1.000	CS 1.66E+2 5.78E+3 5.06E+3	PR 1.000 1.000 1.000	AMC- SR 1.000 1.000	CS 2.59E+2 1.04E+3 6.06E+2	PR 1.000 1.000 1.000	AMS- SR 1.000 1.000	CS 2.14E+2
F F_1 F_2 F_3 F_4	PR 1.000 0.992 0.980 0.505	Self_CS SR 1.000 0.961 0.980 0.059	CS 7.15E+2 8.36E+3 4.38E+3 4.88E+4	1.000 1.000 1.000 0.902	SR 1.000 1.000 1.000 0.647	CS 1.73E+2 6.50E+3 3.74E+3 3.77E+4	1.000 0.204 1.000 0.250	LoISI SR 1.000 0.000 1.000 0.000	CS 1.68E+2 5.00E+4 1.50E+3 5.00E+4	PR 1.000 1.000 1.000 0.971	PNPCI SR 1.000 1.000 1.000 0.882	CS 1.62E+2 6.60E+3 5.37E+3 4.41E+4	PR 1.000 1.000 1.000 0.980	SR 1.000 1.000 1.000 0.922	CS 1.66E+2 5.78E+3 5.06E+3 3.92E+4	PR 1.000 1.000 1.000 1.000	AMC-2 SR 1.000 1.000 1.000	CS 2.59E+2 1.04E+3 6.06E+2 7.66E+3	PR 1.000 1.000 1.000 1.000	AMS- SR 1.000 1.000 1.000	CS 2.14E+2 1.07E+3 6.54E+2 5.45E+3
F F_1 F_2 F_3 F_4 F_5	PR 1.000 0.992 0.980 0.505 0.667	Self_CS SR 1.000 0.961 0.980 0.059 0.471	CS 7.15E+2 8.36E+3 4.38E+3 4.88E+4 3.45E+4	1.000 1.000 1.000 0.902 1.000	SR 1.000 1.000 1.000 0.647 1.000	CS 1.73E+2 6.50E+3 3.74E+3 3.77E+4 5.65E+3	1.000 0.204 1.000 0.250 0.529	LoISI SR 1.000 0.000 1.000 0.000 0.059	CS 1.68E+2 5.00E+4 1.50E+3 5.00E+4 4.71E+4	PR 1.000 1.000 1.000 0.971 1.000	PNPCI SR 1.000 1.000 1.000 0.882 1.000	CS 1.62E+2 6.60E+3 5.37E+3 4.41E+4 1.60E+4	PR 1.000 1.000 1.000 0.980 1.000	SR 1.000 1.000 1.000 0.922 1.000	CS 1.66E+2 5.78E+3 5.06E+3 3.92E+4 1.87E+4	PR 1.000 1.000 1.000 1.000 1.000	AMC-2 SR 1.000 1.000 1.000 1.000	CS 2.59E+2 1.04E+3 6.06E+2 7.66E+3 3.76E+3	PR 1.000 1.000 1.000 1.000 1.000	AMS-, SR 1.000 1.000 1.000 1.000	CS 2.14E+2 1.07E+3 6.54E+2 5.45E+3 2.59E+3
F F ₁ F ₂ F ₃ F ₄ F ₅ F ₆	PR 1.000 0.992 0.980 0.505 0.667 0.635	Self_CS SR 1.000 0.961 0.980 0.059 0.471 0.020	CS 7.15E+2 8.36E+3 4.38E+3 4.88E+4 3.45E+4 1.98E+5	1.000 1.000 1.000 0.902 1.000 1.000	SR 1.000 1.000 1.000 0.647 1.000 1.000	CS 1.73E+2 6.50E+3 3.74E+3 3.77E+4 5.65E+3 1.43E+5	1.000 0.204 1.000 0.250 0.529 0.056	LoISI SR 1.000 0.000 1.000 0.000 0.059 0.000	CS 1.68E+2 5.00E+4 1.50E+3 5.00E+4 4.71E+4 2.00E+5	PR 1.000 1.000 1.000 0.971 1.000 0.244	PNPCI SR 1.000 1.000 0.882 1.000 0.000	CS 1.62E+2 6.60E+3 5.37E+3 4.41E+4 1.60E+4 2.00E+5	PR 1.000 1.000 1.000 0.980 1.000 1.000	SR 1.000 1.000 1.000 0.922 1.000 1.000	CS 1.66E+2 5.78E+3 5.06E+3 3.92E+4 1.87E+4 6.18E+4	PR 1.000 1.000 1.000 1.000 1.000 0.999	AMC-2 SR 1.000 1.000 1.000 1.000 0.980	CS 2.59E+2 1.04E+3 6.06E+2 7.66E+3 3.76E+3 1.17E+5	PR 1.000 1.000 1.000 1.000 1.000 0.990	AMS-, SR 1.000 1.000 1.000 1.000 0.824	CS 2.14E+2 1.07E+3 6.54E+2 5.45E+3 2.59E+3 1.09E+5
F F_1 F_2 F_3 F_4 F_5 F_6 F_7	PR 1.000 0.992 0.980 0.505 0.667 0.635 0.694	Self_CS SR 1.000 0.961 0.980 0.059 0.471 0.020 0.000	CS 7.15E+2 8.36E+3 4.38E+3 4.88E+4 3.45E+4 1.98E+5 2.00E+5	1.000 1.000 1.000 0.902 1.000 1.000	SR 1.000 1.000 1.000 0.647 1.000 1.000 0.000	CS 1.73E+2 6.50E+3 3.74E+3 3.77E+4 5.65E+3 1.43E+5 2.00E+5	1.000 0.204 1.000 0.250 0.529 0.056 0.029	LoISI SR 1.000 0.000 1.000 0.000 0.059 0.000 0.000	CS 1.68E+2 5.00E+4 1.50E+3 5.00E+4 4.71E+4 2.00E+5 2.00E+5	PR 1.000 1.000 1.000 0.971 1.000 0.244 0.855	PNPCI SR 1.000 1.000 0.882 1.000 0.000	CS 1.62E+2 6.60E+3 5.37E+3 4.41E+4 1.60E+4 2.00E+5 2.00E+5	PR 1.000 1.000 0.980 1.000 1.000 1.000	SR 1.000 1.000 1.000 0.922 1.000 1.000	CS 1.66E+2 5.78E+3 5.06E+3 3.92E+4 1.87E+4 6.18E+4 9.07E+4	PR 1.000 1.000 1.000 1.000 1.000 0.999 0.714	AMC-2 SR 1.000 1.000 1.000 1.000 0.980 0.000	CS 2.59E+2 1.04E+3 6.06E+2 7.66E+3 3.76E+3 1.17E+5 2.00E+5	PR 1.000 1.000 1.000 1.000 0.990 0.660	AMS-, SR 1.000 1.000 1.000 1.000 0.824 0.000	CS 2.14E+2 1.07E+3 6.54E+2 5.45E+3 2.59E+3 1.09E+5 2.00E+5
F F_1 F_2 F_3 F_4 F_5 F_6 F_7 F_8	PR 1.000 0.992 0.980 0.505 0.667 0.635 0.694 0.694	Self CS SR 1.000 0.961 0.980 0.059 0.471 0.020 0.000	CS 7.15E+2 8.36E+3 4.38E+3 4.88E+4 3.45E+4 1.98E+5 2.00E+5 4.00E+5	1.000 1.000 1.000 0.902 1.000 1.000 0.433 0.000	SR 1.000 1.000 1.000 0.647 1.000 1.000 0.000	CS 1.73E+2 6.50E+3 3.74E+3 3.77E+4 5.65E+3 1.43E+5 2.00E+5 4.00E+5	1.000 0.204 1.000 0.250 0.529 0.056 0.029 0.012	LoISI SR 1.000 0.000 1.000 0.000 0.059 0.000 0.000	CS 1.68E+2 5.00E+4 1.50E+3 5.00E+4 4.71E+4 2.00E+5 4.00E+5	PR 1.000 1.000 1.000 0.971 1.000 0.244 0.855 0.000	PNPCI SR 1.000 1.000 0.882 1.000 0.000 0.000	CS 1.62E+2 6.60E+3 5.37E+3 4.41E+4 1.60E+4 2.00E+5 4.00E+5	PR 1.000 1.000 0.980 1.000 1.000 1.000	SR 1.000 1.000 1.000 0.922 1.000 1.000 1.000	CS 1.66E+2 5.78E+3 5.06E+3 3.92E+4 1.87E+4 6.18E+4 9.07E+4 3.36E+5	PR 1.000 1.000 1.000 1.000 1.000 0.999 0.714 0.403	AMC-, SR 1.000 1.000 1.000 1.000 0.980 0.000 0.000	CS 2.59E+2 1.04E+3 6.06E+2 7.66E+3 3.76E+3 1.17E+5 2.00E+5 4.00E+5	PR 1.000 1.000 1.000 1.000 1.000 0.990 0.660 0.647	AMS-, SR 1.000 1.000 1.000 1.000 0.824 0.000 0.000	CS 2.14E+2 1.07E+3 6.54E+2 5.45E+3 2.59E+3 1.09E+5 2.00E+5 4.00E+5
F F ₁ F ₂ F ₃ F ₄ F ₅ F ₆ F ₇ F ₈ F ₉	PR 1.000 0.992 0.980 0.505 0.667 0.635 0.694 0.694 0.265	Self_CS SR 1.000 0.961 0.980 0.059 0.471 0.020 0.000 0.000	CS 7.15E+2 8.36E+3 4.38E+3 4.88E+4 3.45E+4 1.98E+5 2.00E+5 4.00E+5	1.000 1.000 0.902 1.000 1.000 0.433 0.000 0.028	SR 1.000 1.000 1.000 0.647 1.000 1.000 0.000 0.000	CS 1.73E+2 6.50E+3 3.74E+3 3.77E+4 5.65E+3 1.43E+5 2.00E+5 4.00E+5	1.000 0.204 1.000 0.250 0.529 0.056 0.029 0.012 0.005	LoISI SR 1.000 0.000 1.000 0.000 0.059 0.000 0.000 0.000	CS 1.68E+2 5.00E+4 1.50E+3 5.00E+4 4.71E+4 2.00E+5 2.00E+5 4.00E+5	PR 1.000 1.000 1.000 0.971 1.000 0.244 0.855 0.000 0.466	PNPCI SR 1.000 1.000 0.882 1.000 0.000 0.000 0.000	CS 1.62E+2 6.60E+3 5.37E+3 4.41E+4 1.60E+4 2.00E+5 4.00E+5 4.00E+5	PR 1.000 1.000 0.980 1.000 1.000 1.000 1.000 0.979	SR 1.000 1.000 1.000 0.922 1.000 1.000 1.000 0.039	CS 1.66E+2 5.78E+3 5.06E+3 3.92E+4 1.87E+4 6.18E+4 9.07E+4 3.36E+5 4.00E+5	PR 1.000 1.000 1.000 1.000 0.999 0.714 0.403 0.256	AMC-2 SR 1.000 1.000 1.000 1.000 0.980 0.000 0.000	CS 2.59E+2 1.04E+3 6.06E+2 7.66E+3 3.76E+3 1.17E+5 2.00E+5 4.00E+5	PR 1.000 1.000 1.000 1.000 0.990 0.660 0.647 0.235	AMS-, SR 1.000 1.000 1.000 1.000 0.824 0.000 0.000	CS 2.14E+2 1.07E+3 6.54E+2 5.45E+3 2.59E+3 1.09E+5 2.00E+5 4.00E+5
F F ₁ F ₂ F ₃ F ₄ F ₅ F ₆ F ₇ F ₈ F ₉	PR 1.000 0.992 0.980 0.505 0.667 0.635 0.694 0.265 0.967	Self_CS SR 1.000 0.961 0.980 0.059 0.471 0.020 0.000 0.000 0.000	CS 7.15E+2 8.36E+3 4.38E+3 4.88E+4 3.45E+4 1.98E+5 2.00E+5 4.00E+5 7.39E+4	1.000 1.000 1.000 0.902 1.000 0.433 0.000 0.028 1.000	SR 1.000 1.000 1.000 0.647 1.000 1.000 0.000 0.000 1.000	CS 1.73E+2 6.50E+3 3.74E+3 3.77E+4 5.65E+3 1.43E+5 2.00E+5 4.00E+5 4.00E+5 8.03E+4	1.000 0.204 1.000 0.250 0.529 0.056 0.029 0.012 0.005 0.083	LoISI SR 1.000 0.000 1.000 0.000 0.059 0.000 0.000 0.000 0.000	CS 1.68E+2 5.00E+4 1.50E+3 5.00E+4 4.71E+4 2.00E+5 2.00E+5 4.00E+5 4.00E+5 2.00E+5	PR 1.000 1.000 0.971 1.000 0.244 0.855 0.000 0.466 1.000	PNPCI SR 1.000 1.000 1.000 0.882 1.000 0.000 0.000 0.000 1.000	CS 1.62E+2 6.60E+3 5.37E+3 4.41E+4 1.60E+4 2.00E+5 2.00E+5 4.00E+5 4.00E+5 4.74E+4	PR 1.000 1.000 0.980 1.000 1.000 1.000 0.979 1.000	SR 1.000 1.000 1.000 0.922 1.000 1.000 1.000 0.039 1.000	CS 1.66E+2 5.78E+3 5.06E+3 3.92E+4 1.87E+4 6.18E+4 9.07E+4 3.36E+5 4.00E+5 4.55E+4	PR 1.000 1.000 1.000 1.000 0.999 0.714 0.403 0.256 1.000	AMC-2 SR 1.000 1.000 1.000 1.000 0.980 0.000 0.000 0.000	CS 2.59E+2 1.04E+3 6.06E+2 7.66E+3 3.76E+3 1.17E+5 2.00E+5 4.00E+5 1.27E+4	PR 1.000 1.000 1.000 1.000 0.990 0.660 0.647 0.235 1.000	AMS-, SR 1.000 1.000 1.000 1.000 0.824 0.000 0.000 0.000	CS 2.14E+2 1.07E+3 6.54E+2 5.45E+3 2.59E+3 1.09E+5 2.00E+5 4.00E+5 1.21E+4
F F ₁ F ₂ F ₃ F ₄ F ₅ F ₆ F ₇ F ₈ F ₉	PR 1.000 0.992 0.980 0.505 0.667 0.635 0.694 0.265 0.967 0.281	self_CS SR 1.000 0.961 0.980 0.059 0.471 0.020 0.000 0.000 0.784 0.000	CS 7.15E+2 8.36E+3 4.38E+3 4.88E+4 3.45E+4 1.98E+5 2.00E+5 4.00E+5 7.39E+4 2.00E+5	1.000 1.000 0.902 1.000 1.000 0.433 0.000 0.028 1.000 0.611	SR 1.000 1.000 1.000 0.647 1.000 1.000 0.000 0.000 0.000 1.000 0.000	CS 1.73E+2 6.50E+3 3.74E+3 3.77E+4 5.65E+3 1.43E+5 2.00E+5 4.00E+5 8.03E+4 2.00E+5	1.000 0.204 1.000 0.250 0.529 0.056 0.029 0.012 0.005 0.083 0.167	LoISI SR 1.000 0.000 1.000 0.000 0.005 0.000 0.000 0.000 0.000 0.000	CS 1.68E+2 5.00E+4 1.50E+3 5.00E+4 4.71E+4 2.00E+5 2.00E+5 4.00E+5 2.00E+5 2.00E+5 2.00E+5	PR 1.000 1.000 1.000 0.971 1.000 0.244 0.855 0.000 0.466 1.000 0.415	PNPCI SR 1.000 1.000 1.000 0.882 1.000 0.000 0.000 0.000 1.000 0.000	CS 1.62E+2 6.60E+3 5.37E+3 4.41E+4 1.60E+4 2.00E+5 4.00E+5 4.00E+5 4.74E+4 2.00E+5	PR 1.000 1.000 0.980 1.000 1.000 1.000 1.000 0.979 1.000 0.673	SR 1.000 1.000 1.000 0.922 1.000 1.000 1.000 0.039 1.000 0.000	CS 1.66E+2 5.78E+3 5.06E+3 3.92E+4 1.87E+4 6.18E+4 9.07E+4 3.36E+5 4.00E+5 4.55E+4 2.00E+5	PR 1.000 1.000 1.000 1.000 0.999 0.714 0.403 0.256 1.000 0.670	AMC-2 SR 1.000 1.000 1.000 1.000 0.980 0.000 0.000 0.000 1.000	CS 2.59E+2 1.04E+3 6.06E+2 7.66E+3 3.76E+3 1.17E+5 2.00E+5 4.00E+5 4.00E+5 1.27E+4 2.00E+5	PR 1.000 1.000 1.000 1.000 0.990 0.660 0.647 0.235 1.000 0.944	AMS-, SR 1.000 1.000 1.000 1.000 0.824 0.000 0.000 0.000 1.000 0.667	CS 2.14E+2 1.07E+3 6.54E+2 5.45E+3 2.59E+3 1.09E+5 2.00E+5 4.00E+5 4.00E+5 1.21E+4 1.63E+5
F F_1 F_2 F_3 F_4 F_5 F_6 F_7 F_8 F_9 F_{10} F_{11} F_{12}	PR 1.000 0.992 0.980 0.505 0.667 0.635 0.694 0.265 0.967 0.281 0.223	self_CS SR 1.000 0.961 0.980 0.059 0.471 0.020 0.000 0.000 0.784 0.000 0.000	CS 7.15E+2 8.36E+3 4.38E+3 4.88E+4 3.45E+4 1.98E+5 2.00E+5 4.00E+5 7.39E+4 2.00E+5 2.00E+5	1.000 1.000 0.902 1.000 0.433 0.000 0.028 1.000 0.611 0.341	SR 1.000 1.000 0.647 1.000 1.000 0.000 0.000 0.000 1.000 0.000 0.000	CS 1.73E+2 6.50E+3 3.74E+3 3.77E+4 5.65E+3 1.43E+5 2.00E+5 4.00E+5 8.03E+4 2.00E+5 2.00E+5	1.000 0.204 1.000 0.250 0.529 0.056 0.029 0.012 0.005 0.083 0.167 0.125	LoISI SR 1.000 0.000 1.000 0.059 0.000 0.000 0.000 0.000 0.000 0.000	CS 1.68E+2 5.00E+4 1.50E+3 5.00E+4 4.71E+4 2.00E+5 2.00E+5 4.00E+5 2.00E+5 2.00E+5 2.00E+5 2.00E+5	PR 1.000 1.000 0.971 1.000 0.244 0.855 0.000 0.466 1.000 0.415	PNPCI SR 1.000 1.000 0.882 1.000 0.000 0.000 0.000 0.000 0.000 0.000	CS 1.62E+2 6.60E+3 5.37E+3 4.41E+4 1.60E+4 2.00E+5 4.00E+5 4.00E+5 4.74E+4 2.00E+5 2.00E+5	PR 1.000 1.000 1.000 0.980 1.000 1.000 1.000 0.979 1.000 0.673 0.828	SR 1.000 1.000 0.922 1.000 1.000 1.000 0.039 1.000 0.000 0.098	CS 1.66E+2 5.78E+3 5.06E+3 3.92E+4 1.87E+4 6.18E+4 9.07E+4 3.36E+5 4.00E+5 4.55E+4 2.00E+5 1.99E+5	PR 1.000 1.000 1.000 1.000 0.999 0.714 0.403 0.256 1.000 0.670 0.750	AMC-, SR 1.000 1.000 1.000 1.000 0.980 0.000 0.000 0.000 0.000 0.000	CS 2.59E+2 1.04E+3 6.06E+2 7.66E+3 3.76E+3 1.17E+5 2.00E+5 4.00E+5 4.00E+5 1.27E+4 2.00E+5 2.00E+5	PR 1.000 1.000 1.000 1.000 0.990 0.660 0.647 0.235 1.000 0.944 0.980	AMS-, SR 1.000 1.000 1.000 1.000 0.824 0.000 0.000 0.000 1.000 0.667 0.843	CS 2.14E+2 1.07E+3 6.54E+2 5.45E+3 2.59E+3 1.09E+5 4.00E+5 4.00E+5 1.21E+4 1.63E+5 1.18E+5
F F_1 F_2 F_3 F_4 F_5 F_6 F_7 F_8 F_9 F_{10} F_{11} F_{12}	PR 1.000 0.992 0.980 0.505 0.667 0.635 0.694 0.265 0.967 0.281 0.223 0.176	self CS SR 1.000 0.961 0.980 0.059 0.471 0.020 0.000 0.000 0.784 0.000 0.000 0.000	CS 7.15E+2 8.36E+3 4.38E+3 4.88E+4 3.45E+4 1.98E+5 2.00E+5 4.00E+5 7.39E+4 2.00E+5 2.00E+5 2.00E+5	1.000 1.000 0.902 1.000 0.433 0.000 0.028 1.000 0.611 0.341 0.373	SR 1.000 1.000 0.647 1.000 1.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	CS 1.73E+2 6.50E+3 3.74E+3 3.77E+4 5.65E+3 1.43E+5 2.00E+5 4.00E+5 8.03E+4 2.00E+5 2.00E+5 2.00E+5 2.00E+5	1.000 0.204 1.000 0.250 0.529 0.056 0.029 0.012 0.005 0.083 0.167 0.125 0.167	LoISI SR 1.000 0.000 1.000 0.059 0.000 0.000 0.000 0.000 0.000 0.000 0.000	CS 1.68E+2 5.00E+4 1.50E+3 5.00E+4 4.71E+4 2.00E+5 2.00E+5 4.00E+5 2.00E+5 2.00E+5 2.00E+5 2.00E+5 2.00E+5	PR 1.000 1.000 0.971 1.000 0.244 0.855 0.000 0.466 1.000 0.415 0.000	PNPCI SR 1.000 1.000 0.882 1.000 0.000 0.000 0.000 1.000 0.000 0.000 0.000	CS 1.62E+2 6.60E+3 5.37E+3 4.41E+4 1.60E+4 2.00E+5 4.00E+5 4.00E+5 4.74E+4 2.00E+5 2.00E+5 2.00E+5 2.00E+5	PR 1.000 1.000 0.980 1.000 1.000 1.000 1.000 0.979 1.000 0.673 0.828 0.667	SR 1.000 1.000 0.922 1.000 1.000 1.000 0.039 1.000 0.000 0.098 0.000	CS 1.66E+2 5.78E+3 5.06E+3 3.92E+4 1.87E+4 6.18E+4 9.07E+4 3.36E+5 4.00E+5 4.55E+4 2.00E+5 1.99E+5 2.00E+5	PR 1.000 1.000 1.000 1.000 0.999 0.714 0.403 0.256 1.000 0.670 0.750 0.667	AMC-, SR 1.000 1.000 1.000 1.000 0.980 0.000 0.000 0.000 0.000 0.000 0.000 0.000	CS 2.59E+2 1.04E+3 6.06E+2 7.66E+3 3.76E+3 1.17E+5 2.00E+5 4.00E+5 1.27E+4 2.00E+5 2.00E+5 2.00E+5 2.00E+5	PR 1.000 1.000 1.000 1.000 0.990 0.660 0.647 0.235 1.000 0.944 0.980 0.667	AMS-, SR 1.000 1.000 1.000 1.000 0.824 0.000 0.000 1.000 0.667 0.843 0.000	CS 2.14E+2 1.07E+3 6.54E+2 5.45E+3 2.59E+3 1.09E+5 2.00E+5 4.00E+5 1.21E+4 1.63E+5 1.18E+5 2.00E+5
F F_1 F_2 F_3 F_4 F_5 F_6 F_7 F_8 F_9 F_{10} F_{11} F_{12} F_{13} F_{14}	PR 1.000 0.992 0.980 0.505 0.667 0.635 0.694 0.265 0.967 0.281 0.223 0.176 0.160	self CS SR 1.000 0.961 0.980 0.059 0.471 0.020 0.000 0.000 0.784 0.000 0.000 0.000 0.000	CS 7.15E+2 8.36E+3 4.38E+3 4.88E+4 3.45E+4 1.98E+5 2.00E+5 4.00E+5 7.39E+4 2.00E+5 2.00E+5 4.00E+5 4.00E+5	1.000 1.000 0.902 1.000 1.000 0.433 0.000 0.028 1.000 0.611 0.341 0.373 0.647	SR 1.000 1.000 1.000 0.647 1.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	CS 1.73E+2 6.50E+3 3.74E+3 3.77E+4 5.65E+3 1.43E+5 2.00E+5 4.00E+5 8.03E+4 2.00E+5 2.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5	1.000 0.204 1.000 0.250 0.529 0.056 0.029 0.012 0.005 0.083 0.167 0.125 0.167	LoISI SR 1.000 0.000 1.000 0.059 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	CS 1.68E+2 5.00E+4 1.50E+3 5.00E+4 4.71E+4 2.00E+5 2.00E+5 4.00E+5 2.00E+5 2.00E+5 2.00E+5 2.00E+5 4.00E+5 4.00E+5	PR 1.000 1.000 0.971 1.000 0.244 0.855 0.000 0.466 1.000 0.415 0.000 0.157	PNPCI SR 1.000 1.000 0.882 1.000 0.000 0.000 0.000 1.000 0.000 0.000 0.000 0.000 0.000	CS 1.62E+2 6.60E+3 5.37E+3 4.41E+4 1.60E+4 2.00E+5 4.00E+5 4.00E+5 4.74E+4 2.00E+5 2.00E+5 2.00E+5 4.00E+5	PR 1.000 1.000 1.000 0.980 1.000 1.000 1.000 1.000 0.979 1.000 0.673 0.828 0.667 0.667	SR 1.000 1.000 0.922 1.000 1.000 1.000 0.039 1.000 0.000 0.098 0.000 0.000	CS 1.66E+2 5.78E+3 5.06E+3 3.92E+4 1.87E+4 6.18E+4 9.07E+4 3.36E+5 4.00E+5 1.99E+5 2.00E+5 4.00E+5	PR 1.000 1.000 1.000 1.000 0.999 0.714 0.403 0.256 1.000 0.670 0.750 0.667 0.667	AMC-, SR 1.000 1.000 1.000 1.000 0.980 0.000 0.000 0.000 0.000 0.000 0.000 0.000	CS 2.59E+2 1.04E+3 6.06E+2 7.66E+3 3.76E+3 1.17E+5 2.00E+5 4.00E+5 1.27E+4 2.00E+5 2.00E+5 2.00E+5 4.00E+5	PR 1.000 1.000 1.000 1.000 0.990 0.660 0.647 0.235 1.000 0.944 0.980 0.667 0.667	AMS-, SR 1.000 1.000 1.000 1.000 0.824 0.000 0.000 1.000 0.667 0.843 0.000 0.000	CS 2.14E+2 1.07E+3 6.54E+2 5.45E+3 2.59E+3 1.09E+5 4.00E+5 4.00E+5 1.21E+4 1.63E+5 1.18E+5 2.00E+5 4.00E+5
F F_1 F_2 F_3 F_4 F_5 F_6 F_7 F_8 F_9 F_{10} F_{11} F_{12} F_{13} F_{14}	PR 1.000 0.992 0.980 0.505 0.667 0.635 0.694 0.265 0.967 0.281 0.223 0.176 0.160 0.113	self CS SR 1.000 0.961 0.980 0.059 0.471 0.020 0.000 0.000 0.784 0.000 0.000 0.000 0.000 0.000	CS 7.15E+2 8.36E+3 4.38E+3 4.88E+4 3.45E+4 1.98E+5 2.00E+5 4.00E+5 7.39E+4 2.00E+5 2.00E+5 2.00E+5 4.00E+5 4.00E+5	1.000 1.000 0.902 1.000 0.433 0.000 0.028 1.000 0.611 0.341 0.373 0.647 0.275	SR 1.000 1.000 1.000 0.647 1.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	CS 1.73E+2 6.50E+3 3.74E+3 3.77E+4 5.65E+3 1.43E+5 2.00E+5 4.00E+5 4.00E+5 2.00E+5 2.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5	1.000 0.204 1.000 0.250 0.529 0.056 0.029 0.012 0.005 0.083 0.167 0.125 0.167 0.125	LoISI SR 1.000 0.000 1.000 0.059 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	CS 1.68E+2 5.00E+4 1.50E+3 5.00E+4 4.71E+4 2.00E+5 4.00E+5 2.00E+5 2.00E+5 2.00E+5 2.00E+5 2.00E+5 4.00E+5 4.00E+5 4.00E+5	PR 1.000 1.000 0.971 1.000 0.244 0.855 0.000 0.466 1.000 0.415 0.000 0.157 0.059	PNPCI SR 1.000 1.000 0.882 1.000 0.000 0.000 0.000 1.000 0.000 0.000 0.000 0.000 0.000	CS 1.62E+2 6.60E+3 5.37E+3 4.41E+4 1.60E+4 2.00E+5 4.00E+5 4.00E+5 2.00E+5 2.00E+5 2.00E+5 2.00E+5 4.00E+5 4.00E+5	PR 1.000 1.000 1.000 0.980 1.000 1.000 1.000 0.979 1.000 0.673 0.828 0.667 0.667	SR 1.000 1.000 0.922 1.000 1.000 1.000 0.039 1.000 0.000 0.098 0.000 0.000 0.000	CS 1.66E+2 5.78E+3 5.06E+3 3.92E+4 1.87E+4 6.18E+4 9.07E+4 3.36E+5 4.00E+5 1.99E+5 2.00E+5 4.00E+5 4.00E+5	PR 1.000 1.000 1.000 1.000 0.999 0.714 0.403 0.256 1.000 0.670 0.667 0.667 0.730	AMC-, SR 1.000 1.000 1.000 0.980 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	CS 2.59E+2 1.04E+3 6.06E+2 7.66E+3 3.76E+3 1.17E+5 2.00E+5 4.00E+5 4.00E+5 2.00E+5 2.00E+5 2.00E+5 4.00E+5 4.00E+5 4.00E+5	PR 1.000 1.000 1.000 1.000 0.990 0.660 0.647 0.235 1.000 0.944 0.980 0.667 0.667 0.748	AMS-, SR 1.000 1.000 1.000 0.824 0.000 0.000 1.000 0.667 0.843 0.000 0.000 0.000 0.000 0.000	CS 2.14E+2 1.07E+3 6.54E+2 5.45E+3 2.59E+3 1.09E+5 4.00E+5 4.00E+5 1.21E+4 1.63E+5 1.18E+5 2.00E+5 4.00E+5 4.00E+5
F F_1 F_2 F_3 F_4 F_5 F_6 F_7 F_8 F_9 F_{10} F_{11} F_{12} F_{13} F_{14}	PR 1.000 0.992 0.980 0.505 0.667 0.635 0.694 0.265 0.967 0.281 0.223 0.176 0.160 0.113 0.026	SR 1.000 0.961 0.980 0.059 0.471 0.020 0.000 0.000 0.784 0.000 0.000 0.000 0.000 0.000 0.000 0.000	CS 7.15E+2 8.36E+3 4.38E+3 4.88E+4 3.45E+4 1.98E+5 2.00E+5 4.00E+5 2.00E+5 2.00E+5 2.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5	1.000 1.000 0.902 1.000 0.433 0.000 0.028 1.000 0.611 0.341 0.373 0.647 0.275 0.490	SR 1.000 1.000 0.647 1.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	CS 1.73E+2 6.50E+3 3.74E+3 3.77E+4 5.65E+3 1.43E+5 2.00E+5 4.00E+5 2.00E+5 2.00E+5 2.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5	1.000 0.204 1.000 0.250 0.529 0.056 0.029 0.012 0.005 0.167 0.125 0.167 0.125 0.167	LoISI SR 1.000 0.000 1.000 0.059 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	CS 1.68E+2 5.00E+4 1.50E+3 5.00E+4 4.71E+4 2.00E+5 4.00E+5 2.00E+5 2.00E+5 2.00E+5 2.00E+5 2.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5	PR 1.000 1.000 0.971 1.000 0.244 0.855 0.000 0.466 1.000 0.415 0.000 0.157 0.059 0.002	PNPCI SR 1.000 1.000 0.882 1.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	CS 1.62E+2 6.60E+3 5.37E+3 4.41E+4 1.60E+5 2.00E+5 4.00E+5 4.00E+5 2.00E+5 2.00E+5 2.00E+5 2.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5	PR 1.000 1.000 0.980 1.000 1.000 1.000 1.000 0.979 1.000 0.673 0.828 0.667 0.613 0.650	SR 1.000 1.000 0.922 1.000 1.000 1.000 0.039 1.000 0.000 0.098 0.000 0.000 0.000 0.000	CS 1.66E+2 5.78E+3 5.06E+3 3.92E+4 1.87E+4 6.18E+4 9.07E+4 4.00E+5 4.00E+5 1.99E+5 2.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5	PR 1.000 1.000 1.000 1.000 0.999 0.714 0.403 0.256 1.000 0.670 0.667 0.667 0.730 0.667	AMC SR 1.000 1.000 1.000 1.000 0.980 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	CS 2.59E+2 1.04E+3 6.06E+2 7.66E+3 3.76E+3 1.17E+5 2.00E+5 4.00E+5 2.00E+5 2.00E+5 2.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5	PR 1.000 1.000 1.000 1.000 0.990 0.660 0.647 0.235 1.000 0.944 0.980 0.667 0.667 0.748 0.667	AMS SR 1.000 1.000 1.000 1.000 0.824 0.000 0.000 0.000 0.667 0.843 0.000 0.000 0.000 0.000 0.000	CS 2.14E+2 1.07E+3 6.54E+2 5.45E+3 2.59E+3 1.09E+5 2.00E+5 4.00E+5 4.00E+5 1.18E+5 2.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5
F F_1 F_2 F_3 F_4 F_5 F_6 F_7 F_8 F_9 F_{10} F_{11} F_{12} F_{13} F_{14}	PR 1.000 0.992 0.980 0.505 0.667 0.635 0.694 0.265 0.967 0.281 0.223 0.176 0.160 0.113 0.026 0.015	SR 1.000 0.961 0.980 0.059 0.471 0.020 0.000 0.0	CS 7.15E+2 8.36E+3 4.38E+3 4.88E+4 1.98E+5 2.00E+5 4.00E+5 2.00E+5 2.00E+5 2.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5	1.000 1.000 0.902 1.000 0.433 0.000 0.028 1.000 0.611 0.341 0.373 0.647 0.275 0.490 0.233	SR 1.000 1.000 0.647 1.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	CS 1.73E+2 6.50E+3 3.74E+3 3.77E+4 5.65E+3 1.43E+5 2.00E+5 4.00E+5 8.03E+4 2.00E+5 2.00E+5 2.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5	1.000 0.204 1.000 0.250 0.529 0.056 0.029 0.012 0.005 0.167 0.167 0.167 0.125 0.167	LoISI SR 1.000 0.0	CS 1.68E+2 5.00E+4 1.50E+3 5.00E+4 4.71E+4 2.00E+5 4.00E+5 2.00E+5 2.00E+5 2.00E+5 2.00E+5 2.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5	PR 1.000 1.000 1.000 0.971 1.000 0.244 0.855 0.000 0.466 1.000 0.415 0.000 0.157 0.059 0.002 0.000 0.000	PNPCI SR 1.000 1.000 0.882 1.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	CS 1.62E+2 6.60E+3 5.37E+3 4.41E+4 1.60E+5 2.00E+5 4.00E+5 4.00E+5 2.00E+5 2.00E+5 2.00E+5 2.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5	PR 1.000 1.000 0.980 1.000 1.000 1.000 1.000 0.979 1.000 0.673 0.828 0.667 0.613 0.650 0.475	SR 1.000 1.000 0.922 1.000 1.000 1.000 1.000 0.039 1.000 0.000 0.098 0.000 0.000 0.000 0.000 0.000 0.000	CS 1.66E+2 5.78E+3 5.06E+3 3.92E+4 1.87E+4 6.18E+4 9.07E+4 3.36E+5 4.00E+5 1.99E+5 2.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5	PR 1.000 1.000 1.000 1.000 0.999 0.714 0.403 0.256 1.000 0.670 0.667 0.750 0.667 0.730 0.667 0.505	AMC SR 1.000 1.000 1.000 1.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	CS 2.59E+2 1.04E+3 6.06E+2 7.66E+3 3.76E+3 1.17E+5 2.00E+5 4.00E+5 2.00E+5 2.00E+5 2.00E+5 2.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5	PR 1.000 1.000 1.000 1.000 0.990 0.660 0.647 0.235 1.000 0.944 0.980 0.667 0.667 0.748 0.667 0.625	AMS-, SR 1.000 1.000 1.000 0.824 0.000 0.000 1.000 0.667 0.843 0.000 0.000 0.000 0.000 0.000	CS 2.14E+2 1.07E+3 6.54E+2 5.45E+3 2.59E+3 1.09E+5 4.00E+5 4.00E+5 1.18E+5 2.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5
F F ₁ F ₂ F ₃ F ₄ F ₅ F ₆ F ₇ F ₈ F ₉ F ₁₀ F ₁₁ F ₁₂ F ₁₃ F ₁₄ F ₁₅ F ₁₆ F ₁₇ F ₁₈	PR 1.000 0.992 0.980 0.505 0.667 0.635 0.694 0.265 0.967 0.281 0.176 0.113 0.026 0.015 0.000	SR 1.000 0.961 0.980 0.059 0.471 0.020 0.000 0.000 0.784 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	CS 7.15E+2 8.36E+3 4.38E+3 4.88E+4 1.98E+5 2.00E+5 4.00E+5 7.39E+4 2.00E+5 2.00E+5 2.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5	1.000 1.000 0.902 1.000 0.433 0.000 0.028 1.000 0.611 0.341 0.373 0.647 0.275 0.490 0.233 0.219	SR 1.000 1.000 0.647 1.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	CS 1.73E+2 6.50E+3 3.74E+3 3.77E+4 5.65E+3 1.43E+5 2.00E+5 4.00E+5 2.00E+5 2.00E+5 2.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5	1.000 0.204 1.000 0.250 0.529 0.056 0.029 0.012 0.005 0.167 0.125 0.167 0.125 0.167 0.125 0.167 0.125 0.167	LoISI SR 1.000 0.000 0.000 0.059 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	CS 1.68E+2 5.00E+4 1.50E+3 5.00E+4 4.71E+4 2.00E+5 4.00E+5 2.00E+5 2.00E+5 2.00E+5 2.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5	PR 1.000 1.000 0.971 1.000 0.244 0.855 0.000 0.466 1.000 0.157 0.002 0.002 0.000 0.000 0.000	PNPCI SR 1.000 1.000 0.882 1.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	CS 1.62E+2 6.60E+3 5.37E+3 4.41E+4 1.60E+5 2.00E+5 4.00E+5 4.00E+5 2.00E+5 2.00E+5 2.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5	PR 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 0.979 1.000 0.673 0.828 0.667 0.613 0.650 0.475 0.497	\$\begin{array}{c} \text{SR} \\ \text{1.000} \\ \text{0.0039} \\ \text{1.000} \\ \text{0.000} \\ \text{0.0000} \\ \text{0.0000} \\ \text{0.0000} \\ \text{0.0000} \\ 0.00	CS 1.66E+2 5.78E+3 5.06E+3 3.92E+4 1.87E+4 6.18E+4 9.07E+4 3.36E+5 4.00E+5 2.00E+5 2.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5	PR 1.000 1.000 1.000 1.000 0.999 0.714 0.403 0.256 1.000 0.750 0.667 0.730 0.667 0.505 0.667	AMC SR 1.000 1.000 1.000 1.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	CS 2.59E+2 1.04E+3 6.06E+2 7.66E+3 3.76E+3 1.17E+5 2.00E+5 4.00E+5 2.00E+5 2.00E+5 2.00E+5 2.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5	PR 1.000 1.000 1.000 1.000 0.990 0.660 0.647 0.235 1.000 0.944 0.980 0.667 0.748 0.667 0.625 0.667	AMS-, SR 1.000 1.000 1.000 1.000 0.824 0.000 0.000 0.000 0.667 0.843 0.000 0.000 0.000 0.000 0.000 0.000 0.000	CS 2.14E+2 1.07E+3 6.54E+2 5.45E+3 2.59E+3 1.09E+5 4.00E+5 4.00E+5 1.21E+4 1.63E+5 2.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5
F F ₁ F ₂ F ₃ F ₄ F ₅ F ₆ F ₇ F ₈ F ₉ F ₁₀ F ₁₁ F ₁₂ F ₁₃ F ₁₄ F ₁₅ F ₁₆ F ₁₇ F ₁₈	PR 1.000 0.992 0.980 0.505 0.667 0.635 0.694 0.265 0.967 0.281 0.176 0.113 0.026 0.015 0.000	SR 1.000 0.961 0.980 0.059 0.471 0.020 0.000 0.000 0.784 0.0000 0.000 0.	CS 7.15E+2 8.36E+3 4.38E+3 4.88E+4 1.98E+5 2.00E+5 4.00E+5 7.39E+4 2.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5	1.000 1.000 0.902 1.000 0.433 0.000 0.028 1.000 0.611 0.341 0.373 0.647 0.275 0.490 0.233 0.219	SR 1.000 1.000 0.647 1.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	CS 1.73E+2 6.50E+3 3.74E+3 3.77E+4 5.65E+3 1.43E+5 2.00E+5 4.00E+5 2.00E+5 2.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5	1.000 0.204 1.000 0.250 0.529 0.056 6 0.029 0.012 0.005 0.012 0.005 0.012 0.005 0.0167 0.125 0.167 0.167 0.167 0.076 0.0157 0.007 0.027	LoISI SR 1.000 0.000 0.000 0.059 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	CS 1.68E+2 5.00E+4 1.50E+3 5.00E+4 4.71E+4 2.00E+5 4.00E+5 4.00E+5 2.00E+5 2.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5	PR 1.000 1.000 0.971 1.000 0.244 0.855 0.000 0.465 1.000 0.157 0.000 0.000 0.000 0.000 0.000	PNPCI SR 1.000 1.000 0.882 1.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	CS 1.62E+2 6.60E+3 5.37E+3 4.41E+4 1.60E+5 2.00E+5 4.00E+5 4.00E+5 2.00E+5 2.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5	PR 1.000 1.000 0.980 1.000 1.000 1.000 0.979 1.000 0.673 0.667 0.667 0.665 0.475 0.497 0.223	\$\frac{\sqrt{8R}}{1.000}\$ 1.000 1.000 0.922 1.000 1.000 1.000 1.000 0.039 1.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	CS 1.66E+2 5.78E+3 5.06E+3 3.92E+4 1.87E+4 6.18E+4 9.07E+4 3.36E+5 4.00E+5 1.99E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5	PR 1.000 1.000 1.000 1.000 0.999 0.714 0.403 0.256 1.000 0.670 0.667 0.667 0.505 0.667 0.498	AMC SR 1.000 1.000 1.000 1.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	CS 2.59E+2 1.04E+3 6.06E+2 7.66E+3 3.76E+3 1.17E+5 2.00E+5 4.00E+5 2.00E+5 2.00E+5 2.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5	PR 1.000 1.000 1.000 1.000 0.990 0.660 0.647 0.235 1.000 0.944 0.667 0.748 0.667 0.6667 0.6667 0.655 0.667	AMS-, SR 1.000 1.000 1.000 1.000 0.824 0.000 0.000 0.000 0.000 0.667 0.667 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	CS 2.14E+2 1.07E+3 6.54E+2 5.45E+3 2.59E+3 1.09E+5 4.00E+5 4.00E+5 1.21E+4 1.63E+5 1.18E+5 2.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5
F ₁ F ₂ F ₃ F ₄ F ₅ F ₆ F ₇ F ₈ F ₉ F ₁₀ F ₁₁ F ₁₂ F ₁₃ F ₁₄ F ₁₅ F ₁₆ F ₁₇ F ₁₈	PR 1.000 0.992 0.980 0.505 0.667 0.635 0.694 0.265 0.967 0.281 0.176 0.113 0.026 0.015 0.000	SR 1.000 0.961 0.980 0.059 0.471 0.020 0.000 0.000 0.784 0.0000 0.000 0.	CS 7.15E+2 8.36E+3 4.38E+3 4.88E+4 1.98E+5 2.00E+5 4.00E+5 7.39E+4 2.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5	1.000 1.000 0.902 1.000 0.433 0.000 0.028 1.000 0.611 0.341 0.373 0.647 0.275 0.490 0.233 0.219	SR 1.000 1.000 0.647 1.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	CS 1.73E+2 6.50E+3 3.74E+3 3.77E+4 5.65E+3 1.43E+5 2.00E+5 4.00E+5 2.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5	1.000 0.204 1.000 0.250 0.529 0.056 6 0.029 0.012 0.005 0.012 0.005 0.012 0.005 0.0167 0.125 0.167 0.167 0.167 0.076 0.0157 0.007 0.027	LoISI SR 1.000 0.000 0.000 0.059 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	CS 1.68E+2 5.00E+4 1.50E+3 5.00E+4 4.71E+4 2.00E+5 4.00E+5 4.00E+5 2.00E+5 2.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5	PR 1.000 1.000 0.971 1.000 0.244 0.855 0.000 0.465 1.000 0.157 0.000 0.000 0.000 0.000 0.000	PNPCI SR 1.000 1.000 0.882 1.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	CS 1.62E+2 6.60E+3 5.37E+3 4.41E+4 1.60E+5 2.00E+5 4.00E+5 4.00E+5 2.00E+5 2.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5	PR 1.000 1.000 0.980 1.000 1.000 1.000 0.979 1.000 0.673 0.667 0.667 0.665 0.475 0.497 0.223	\$\frac{\sqrt{8R}}{1.000}\$ 1.000 1.000 0.922 1.000 1.000 1.000 1.000 0.039 1.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	CS 1.66E+2 5.78E+3 5.06E+3 3.92E+4 1.87E+4 6.18E+4 9.07E+4 3.36E+5 4.00E+5 1.99E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5	PR 1.000 1.000 1.000 1.000 0.999 0.714 0.403 0.256 1.000 0.670 0.667 0.667 0.505 0.667 0.498	AMC SR 1.000 1.000 1.000 1.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	CS 2.59E+2 1.04E+3 6.06E+2 7.66E+3 3.76E+3 1.17E+5 2.00E+5 4.00E+5 2.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5	PR 1.000 1.000 1.000 1.000 0.990 0.660 0.647 0.235 1.000 0.944 0.667 0.748 0.667 0.6667 0.6667 0.655 0.667	AMS-, SR 1.000 1.000 1.000 1.000 0.824 0.000 0.000 0.000 0.000 0.667 0.667 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	CS 2.14E+2 1.07E+3 6.54E+2 5.45E+3 2.59E+3 1.09E+5 4.00E+5 4.00E+5 1.21E+4 1.63E+5 1.18E+5 2.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5 4.00E+5

TABLE SXVI THE CHANGE OF 'BRPS" OF DIFFERENT ALGORITHMS WITH THE ACCURACY LEVEL INCREASING.

Accuracy Level					
	$\varepsilon = 1.0E - 01$	$\varepsilon = 1.0E - 02$	$\varepsilon = 1.0E - 03$	$\varepsilon = 1.0E - 04$	$\varepsilon = 1.0E - 05$
Algorithm bprs	0 1.02 01	0 1.02 02	0 1.02 00	0 1.02 01	0 1.02 00
CDE	12	7	7	7	5
SDE	5	4	1	1	1
LIPS	6	4	4	4	4
R2PSO	8	5	4	4	4
NCDE	14	6	7	7	7
NSDE	8	2	2	2	2
Self_CCDE	12	7	7	6	5
Self_CSDE	7	6	5	3	1
LoICDE	15	7	7	6	6
LoISDE	8	4	2	2	2
PNPCDE	13	6	6	6	5
MOMMOP	17	13	11	11	10
LAMC-ACO	15	9	9	9	9
LAMS-ACO	11	12	15	14	14

TABLE SXVII

COMPARISON RESULTS WITH RESPECT TO CS ON FIVE FUNCTIONS (F_1 - F_5) AT THE FIVE ACCURACY LEVELS. EACH UNIT HAS TWO NUMBERS IN FORM OF "NUMBER1/NUMBER2" WITH "NUMBER1" INDICATING THE NUMBER OF FUNCTIONS WHERE LAMC-ACO ACHIEVES A SMALLER CS THAN THE COMPARED METHOD AND "NUMBER2" SUGGESTING THE NUMBER OF FUNCTIONS WHERE LSMS-ACO ACHIEVES A SMALLER CS.

Accuracy Level Algorithm		$\epsilon = 1.0E - 02$	$\epsilon = 1.0E - 03$	$\epsilon = 1.0E - 04$	$\epsilon = 1.0E - 05$
CDE	3 / 3	4 / 4	4 / 4	4 / 4	4 / 4
NCDE	4/3	3 / 5	4 / 5	3 / 5	3 / 5
Self_CCDE	4 / 4	4/5	5 / 5	5 / 5	5 / 5
LoICDE	2/2	3 / 4	4 / 4	4 / 4	4 / 4
PNPCDE	3/2	4 / 4	4 / 4	4 / 4	4 / 4
MOMMOP	3/3	4 / 4	4 / 4	4 / 4	4 / 4

* In the following five tables (Tables SXVIII-SXXII), nonparametric Wilcoxon Rank-Sum test results with respect to PR between LAM-ACOs and the compared methods are presented with each table associated with one accuracy level. Each compared algorithm is associated with two columns, of which the left one is the results compared with LAMC-ACO and the right one is the results compared with LAMS-ACO. The grayed units mean LAMC-ACO or LAMS-ACO is significantly better than the compared algorithm, while the bolded values indicate that LAMC-ACO or LAMS-ACO is significantly worse. The other cases suggest LAMC-ACO or LAMS-ACO performs similarly to the compared method. The last row (w/t/l) of these tables counts the number of functions on which LAMC-ACO or LAMS-ACO significantly wins, ties and significantly loses the competitions when compared with corresponding counterparts, respectively. Table SXXIII presents the change of "w/t/l" of LAMC-ACO and LAMS-ACO compared with the counterparts with the left associated with LAMC-ACO and the right related to LAMS-ACO.

 $TABLE\ SXVIII$ WILCOXON RANK SUM TEST RESULTS BETWEEN LAM-ACOS AND STATE-OF-THE-ART METHODS AT ACCURACY LEVEL ϵ =1.0E-01.

												1.0E-0)1											
F	CI	DE	SI	DΕ	LI	PS	R2F	PSO	NC	DE	NS		Self (CCDE	Self (CSDE	LoI	CDE	LoI	SDE	PNP	CDE	MOM	MOP
F_1	2627	2627	3443	3443	3035	3035	2627	2627	2627	2627	2627	2627	2627	2627	2627	2627	2627	2627	2627	2627	2627	2627	2627	2627
F_2	2627	2627	2627	2627	2627	2627	2627	2627	2627	2627	2627	2627	2627	2627	2627	2627	2627	2627	2627	2627	2627	2627	2627	2627
F_3	2627	2627	2627	2627	2627	2627	2627	2627	2627	2627	2627	2627	2627	2627	2627	2627	2627	2627	2627	2627	2627	2627	2627	2627
F_4	2627	2627	2627	2627	2627	2627	2627	2627	2627	2627	2627	2627	2627	2627	2627	2627	2627	2627	2627	2627	2627	2627	2627	2627
F_5	2627	2627	2627	2627	2627	2627	2627	2627	2627	2627	2652	2652	2627	2627	2627	2627	2627	2627	2627	2627	2627	2627	2627	2627
F_6	2601	2448	3927	3927	3927	3927	3926	3920	3582	3498	3927	3927	2652	2499	3689	3635	2601	2448	3927	3927	2601	2448	2601	2448
F_7	2627	2627	2627	2627	2678	2678	2627	2627	2627	2627	2627	2627	2627	2627	2627	2627	2627	2627	2627	2627	2627	2627	2627	2627
F_8	3927	3927	3927	3927	3927	3927	3927	3927	3737	3886	3927	3927	1326	1326	2931	3553	3927	3927	3927	3927	3927	3927	1326	1326
F_9	1336	1326	3927	3927	3927	3927	3927	3927	1408	1326	3927	3927	1366	1327	3902	3706	1359	1326	3927	3927	1366	1326	1326	1326
F_{10}	2627	2627	3800	3800	3647	3647	2856	2856	2627	2627	3927	3927	2627	2627	2627	2627	2627	2627	3927	3927	2627	2627	2627	2627
F_{11}	2627		2729		2627	2627	2627		2627	2627	2627	2627	2627		2652	2652	2627			2678	2627	2627	2627	2627
F_{12}	3927	3927		3927	3927	3927	3927	3921		2760		3927	3035		3774	3735			3927		3927	3927	2882	2729
F_{13}	2601		3303			2929				3083				2627	3186	3186		2678				2601		-
F_{14}	2627						2627	2627		2627		2652		2627	2652	2652	2627	2627	2652			2627	2627	
F_{15}	2652				3494		3035	3017		2601	2627			2601	3723	3716	2627	2601	2627				3621	3608
10	3876					2627	3188	3188		2627		2627		2627	2652	2652	2627	2627	2627		3060		2627	
17	3927		-	-		3768	3876	3874		2576		2761			3825	3819	2627			3106		3927	2627	
- 10	2627		3723			2984	3519	3519		2627		2652		2627	3290	3290	2627	2627	2703			2627	2627	
F_{19}			3868			3927	3927	3927		2749				3743	3927	3927	3927	3927		3896			3927	3927
20	3927	3927		3927	3927	3927	3871	3882					2990		3927	3927	2015			2584		3927	2015	
w/t/l	6/13/1	6/13/1	13/7/0	13/7/0	12/8/0	12/8/0	10/10/0	10/10/0	4/14/2	3/15/2	7/12/1	7/12/1	3/15/2	3/15/2	10/10/0	10/10/0	3/15/2	3/15/2	8/12/0	8/12/0	6/13/1	6/13/1	3/14/3	2/15/3

TABLE SXIX WILCOXON RANK SUM TEST RESULTS BETWEEN LAM-ACOS AND STATE-OF-THE-ART METHODS AT ACCURACY LEVEL ϵ =1.0E-02.

												1.0E-0	2											
F	CI	DΕ	SI	DΕ	LI	PS	R2I	PSO	NC.	DE	NS	DE	Self_0	CCDE	Self_0	CSDE	LoI	CDE	LoI	SDE	PNP	CDE	MOM	IMOP
F_1	2627	2627	3443	3443	3035	3035	2627	2627	2627	2627	2627	2627	2627	2627	2627	2627	2627	2627	2627	2627	2627	2627	2627	2627
F_2	2627	2627	2627	2627	2627	2627	2627	2627	2627	2627	2678	2678	2627	2627	2627	2627	2627	2627	2882	2882	2627	2627	2627	2627
F_3	2627	2627	2627	2627	2627	2627	2627	2627	2627	2627	2627	2627	2627	2627	2627	2627	2627	2627	2627	2627	2627	2627	2627	2627
F_4	2627	2627	2627	2627	2627	2627	2627	2627	2627	2627	2652	2652	2627	2627	2627	2627	2627	2627	2627	2627	2627	2627	2627	2627
F_5	2627	2627	2627	2627	2627	2627	2627	2627	2627	2627	2754	2754	2627	2627	2627	2627	2627	2627	2627	2627	2627	2627	2627	2627
F_6	2601	2448	3927	3927	3927	3927	3927	3924	3926	3917	3927	3927	2805	2652	3818	3773	2601	2448	3927	3927	2964	2847	2601	2448
F_7	1960	1428	3927	3927	3927	3927	3924	3871	1976	1444	3927	3927	1912	1426	3695	3295	1909	1397	3927	3927	1962	1450	1326	1326
F_8	3927	3927	3927	3927	3927	3927	3927	3927	3927	3927	3927	3927	1326	1326	2449	3484	3927	3927	3927	3927	3927	3927	1326	1326
F_9	1347	1326	3927	3927	3927	3927	3927	3927	1389	1326	3927	3927	1417	1327	3878	3618	1347	1326	3927	3927	1364	1326	1326	1326
F_{10}	2627	2627	3927	3927	3902	3902	3086	3086	2729	2729	3927	3927	2627	2627	2627	2627	2627	2627	3927	3927	2627	2627	2627	2627
F_{11}	3851	3927	3927	3927	2003	2703	3858	3927	2931	3544	3927	3927	2243	2958	3615	3823	3851	3927	3927	3927	3851	3927	1835	2525
F_{12}	3927	3927	3927	3927	3927	3927	3927	3927	3729	3722	3927	3927	3575	3563	3921	3920	3927	3927	3927	3927	3927	3927	2780	2754
F_{13}	2754	2938	3927	3927	1785	1949	2703	2895	2627	2831	3927	3927	2627	2831	2958	3110	2627	2831	3927	3927	2627	2831	1326	1378
F_{14}	3035	3035	3927	3927	2805	2805	3417	3417	2627	2627	3927	3927	2627	2627	2907	2907	2627	2627	3927	3927	2678	2678	2295	2295
F_{15}	3927	3927	3927	3927	3927	3927	3927	3927	3927	3927	3927	3927	3927	3927	3927	3927	3896	3900	3927	3927	3925	3927	3406	3472
F_{16}	3927	3927	3927	3927	3927	3927	3927	3927	2627	2627	3927	3927	2627	2627	3749	3749	2703	2703	3927	3927	3902	3902	2754	2754
F_{17}	3927	3927	3927	3927	3927	3927	3927	3927	3927	3927	3927	3927	3914	3926	3927	3927	3927	3927	3927	3927	3927	3927	3295	3766
F_{18}	3927	3927	3927	3927	3927	3927	3927	3927	3570	3570	3927	3927	3927	3927	3927	3927	3927	3927	3927	3927	3927	3927	3927	3927
F_{19}	3927	3927	3927	3927	3927	3927	3927	3927	3621	3652	3927	3927	3921	3927	3927	3927	3927	3927	3927	3927	3927	3927	3927	3927
F_{20}	3927	3927	3927	3927	3927	3927	3927	3927	2856	3545	3927	3927	3675	3837	3927	3927	3927	3927	3927	3927	3927	3927	3927	3927
w/t/l	10/8/2	11/7/2	16/4/0	16/4/0	13/5/2	13/6/1	14/6/0	15/5/0	8/10/2	9/9/2	15/5/0	15/5/0	6/10/4	7/10/3	13/7/0	14/6/0	8/10/2	8/10/2	16/4/0	16/4/0	10/8/2	9/9/2	5/9/6	5/10/5

TABLE SXX WILCOXON RANK SUM TEST RESULTS BETWEEN LAM-ACOS AND STATE-OF-THE-ART METHODS AT ACCURACY LEVEL ϵ =1.0E-03.

												1.0E-0	3											
F	CI	DΕ	SI	DΕ	LI	PS	R2I	PSO	NC	DE	NS	DE	Self_0	CCDE	Self_	CSDE	LoI	CDE	LoIS	SDE	PNP	CDE	MOM	IMOP
F_1	2627	2627	3443	3443	3035	3035	2627	2627	2627	2627	2627	2627	2627	2627	2627	2627	2627	2627	2627	2627	2627	2627	2627	2627
F_2	2627	2627	2678	2678	2627	2627	2627	2627	2627	2627	2882	2882	2627	2627	2627	2627	2627	2627	3468	3468	2627	2627	2627	2627
F_2	2627	2627	2627	2627	2652	2652	2627	2627	2627	2627	2627	2627	2627	2627	2627	2627	2627	2627	2627	2627	2627	2627	2627	2627
F_{Λ}	2627	2627	3927	3927	2678						3902		2627		3009			2627	3902	3902	2627	2627	2627	2627
F_5	2627	2627	2703	2703	2627	2627	2627	2627			3009		2627		2627	2627	2627	2627	3111	3111	2627	2627	2627	2627
F_6	2601	2397	3927	3927	3927	3927	3927	3927			3927			2883		3861		2397	3927	3927	3717	3665	2601	2397
F_7	1610	1349	3927	3927	3927	3927	3925	3875	1638			3927		1348		2907	1762		3927	3927	1629	1365	1326	
F_{\aleph}	3927	3927	3927	3927	3927	3927	3927	3927		3927		3927	_		2273		3927		3927	3927	3927	3927	1326	
				3927				3927											3927	3927				
F_9	1326	1020			3927	3927	3927		1326			3927				3176			-		1326			1326
- 10	2627		3927	3927	3927	3927	3213	3213	2754			3927	2627		2627	2627		2627	3927	3927	2627	2627	2627	2627
F_{11}	2800	3927	3927	3927	1346	2627	2915	3927	2183			3927	1829	3456	3301	3919	2754	3927	3927	3927	2754	3927	1397	2886
F_{12}	3927	3927	3927	3927	3797	3927	3914	3927	3901	3927	3927	3927	3679	3913	3865	3924	3810	3927	3927	3927	3927	3927	1737	2940
F_{13}	3723	3735	3927	3927	1836	1896	2882	2943	2627	2703	3927	3927	2627	2703	3468	3495	2882	2943	3927	3927	2831	2895	2627	2703
F_{14}	3851	3851	3927	3927	2805	2805	3698	3698	2627	2627	3927	3927	2627	2627	3570	3570	2652	2652	3927	3927	3035	3035	2627	2627
F_{15}	3927	3927	3927	3927	3927	3927	3927	3927	3927	3927	3927	3927	3927	3927	3927	3927	3923	3926	3927	3927	3927	3927	3467	3525
F_{16}	3927	3927	3927	3927	3927	3927	3927	3927	2627	2627	3927	3927	2652	2652	3876	3876	2958	2958	3927	3927	3927	3927	2754	2754
		3927	3927	3927	3927	3927	3927	3927	3927	3927	3927	3927	3925	3927	3927	3927	3927	3927	3927	3927	3927	3927	3287	3774
	3927	3927	3927	3927	3927	3927	3927	3927	3621	3621	3927	3927	3927	3927	3927	3927	3927	3927	3927	3927	3927	3927	3927	3927
- 10	3927	3927	3927	3927	3927	3927	3927	3927	3624	3652	3927	3927	3927	3927	3927	3927	3927	3927	3927	3927	3927	3927	3927	3927
	3927	3927	3927	3927	3927	3927	3927	3927	2856	3545	3927	3927	3927	3927	3927	3927	3927	3927	3927	3927	3927	3927	3927	3927
				17/3/0	13/5/2												9/9/2	10/8/2	18/2/0	18/2/0	10/8/2		5/10/5	7/10/3

TABLE SXXI WILCOXON RANK SUM TEST RESULTS BETWEEN LAM-ACOS AND STATE-OF-THE-ART METHODS AT ACCURACY LEVEL ϵ =1.0E-04.

												1.0E-0)4											
F	CI	DΕ	SI	ÞΕ	LI	PS	R2I	PSO	NC	DE	NS	DE	Self_0	CCDE	Self_0	CSDE	LoI	CDE	LoIS	SDE	PNP	CDE	MOM	MOP
F_1	2627	2627	3443	3443	3035	3035	2627	2627	2627	2627	2627	2627	2627	2627	2627	2627	2627	2627	2627	2627	2627	2627	2627	2627
F_2	2627	2627	3239	3239	2627	2627	2627	2627	2627	2627	3060	3060	2627	2627	2627	2627	2627	2627	3876	3876	2627	2627	2627	2627
F_3	2627	2627	2627	2627	2678	2678	2627	2627	2627	2627	2627	2627	2627	2627	2627	2627	2627	2627	2627	2627	2627	2627	2627	2627
F_4	2627	2627	3927	3927	2678	2678	2907	2907	2627	2627	3927	3927	2627	2627	3545	3545	2754	2754	3927	3927	2627	2627	2627	2627
F_5	2627	2627	2831	2831	2627	2627	2627	2627	2627	2627	3290	3290	2627	2627	2729	2729	2627	2627	3494	3494	2627	2627	2627	2627
F_6	2601	2397	3927	3927	3927	3927	3927	3927	3927	3927	3927	3927	3272	3132	3898	3866	2601	2397	3927	3927	3927	3923	2601	2397
F_7	1396	1331	3927	3927	3927	3927	3927	3924	1390	1334	3927	3927	1366	1330	3176	2537	3061	2334	3927	3927	1390	1338	1326	1326
F_8	3927	3927	3927	3927	3927	3927	3927	3927	3927	3927	3927	3927	1326	1326	1977	3260	3927	3927	3927	3927	3927	3927	1326	1326
F_9	1326	1326	3927	3927	3927	3927	3927	3927	1326	1326	3927	3927	1326	1326	3076	2425	3927	3911	3927	3927	1326	1326	1326	1326
F_{10}	2627	2627	3927	3927	3927	3927	3468	3468	2805	2805	3927	3927	2627	2627	2729	2729	2627	2627	3927	3927	2627	2627	2627	2627
F_{11}	3827	3927	3927	3927	1330	2525	2852	3927	2243	3755	3927	3927	1960	3587	3802	3927	2702	3927	3927	3927	2702	3927	2295	3818
F_{12}	3927	3927	3927	3927	3734	3927	3927	3927	3927	3927	3927	3927	3927	3927	3906	3927	3927	3927	3927	3927	3927	3927	1469	3042
F_{13}	3927	3927	3927	3927	1862	1881	2933	2952	2627	2652	3927	3927	2678	2702	3902	3902	3494	3502	3927	3927	3545	3552	2627	2652
F_{14}	3927	3927	3927	3927	2805	2805	3800	3800	2627	2627	3927	3927	2703	2703	3876	3876	2703	2703	3927	3927	3723	3723	2627	2627
F_{15}	3927	3927	3927	3927	3927	3927	3927	3927	3927	3927	3927	3927	3927	3927	3927	3927	3927	3927	3927	3927	3927	3927	3471	3526
F_{16}	3927	3927	3927	3927	3927	3927	3927	3927	2627	2627	3927	3927	2703	2703	3927	3927	3417	3417	3927	3927	3927	3927	2754	2754
F_{17}	3927	3927	3927	3927	3927	3927	3927	3927	3927	3927	3927	3927	3927	3927	3927	3927	3927	3927	3927	3927	3927	3927	3335	3790
F_{18}	3927	3927	3927	3927	3927	3927	3927	3927	3647	3647	3927	3927	3927	3927	3927	3927	3927	3927	3927	3927	3927	3927	3927	3927
F_{19}	3927	3927	3927	3927	3927	3927	3927	3927	3675	3702	3927	3927	3927	3927	3927	3927	3927	3927	3927	3927	3927	3927	3927	3927
F_{20}	3927	3927	3927	3927	3927	3927	3927	3927	2805	3519	3902	3927	3922	3927	3927	3927	3902	3927	3909	3927	3927	3927	3902	3927
w/t/l	11/7/2	11/7/2	18/2/0	18/2/0	13/5/2	13/6/1	15/5/0	16/4/0	7/10/3	9/9/2	18/2/0	18/2/0	7/9/4	8/9/3	14/5/1	13/7/0	11/9/0	11/8/1	18/2/0	18/2/0	11/7/2	12/6/2	5/10/5	7/10/3

TABLE~SXXII WILCOXON RANK SUM TEST RESULTS BETWEEN LAM-ACOS AND STATE-OF-THE-ART METHODS AT ACCURACY LEVEL ϵ =1.0E-05.

												1.0E-0	5											
F	CI	ЭE	SI	DΕ	LI	PS	R21	PSO	NC	DE	NS	DE	Self_0	CCDE	Self_	CSDE	LoI	CDE	LoI	SDE	PNP	CDE	MOM	MOP
F_1	2627	2627	3443	3443	3035	3035	2627	2627	2627	2627	2627	2627	2627	2627	2627	2627	2627	2627	2627	2627	2627	2627	2627	2627
F_2	2627	2627	3570	3570	2627	2627	2627	2627	2627	2627	3111	3111		2627	2678	2678	2627	2627	3927	3927	2627	2627	2627	2627
F_3	2627	2627	2627	2627	2678	2678	2627	2627	2627	2627	2627	2627		2627			2627	2627	2627	2627	2627	2627	2627	2627
F_4	3366	3366	3927	3927	2678	2678	3111	3111	2627	2627	3927	3927				3851	3086	3086	3927	3927	2780	2780	2729	2729
F_5	2627	2627	3009	3009	2627	2627	2627	2627	2627	2627	3621	3621	2627	2627	3315	3315	2627	2627	3851	3851	2627	2627	2627	2627
F_6	2653	2453	3927	3927	3927	3927	3927	3927	3927	3927	3927	3927	3428				2601	-07,	3927	3927	3927	3927	2601	2397
F_7		2192	3927	3927	3927	3927	3927	3927	1353	1332		3927	_		2889		3927	3916	3927	3927	1393			
F_8	3927	3927	3927	3927	3927	3927	3927	3927	3927	3927	3927	3927			1378			3927	3927	3927	3927	3927	1326	
F_9	1326	1326	3927	3927	3927	3927	3927	3927	1326	1326	3927	3927		1326		_	3927	3927	3927	3927	1326	1326	1326	
F_{10}	2627	2627	3927	3927	3927	3927	3//4	3//4	2882	2882	3927	3927		2627	2907	2907	2627	2627	3927	3927	2627	2627	2627	2627
F_{11}	3927	3927 3927	3927 3927	3927 3927	1330	2397 3927	2952	3927	2422 3927	3800	3927 3927	3927	3927	3638	3902 3927	3927 3927	3077	3927 3927	3927	3927	3927	3927 3927	2601 1938	3910 3684
F_{12}	3927	3927	3927	3927	3698 1862	1862	3927 3009	3927		3927 2678		3927 3927		2754		3927	3876	3876	3927	3927	3927	3927	2627	2627
	3927 3927	3927	3927	3927	2805	2805	3902	3902	2627	2627	3927	3927		2805		3927	2780	2780	0,2,	3927	3927	3927	2627	2627
F_{15}		3927	3927	3927	3927	3927	3927	3902	3927	3927			3927		3927	3927	3927	3927	3927	3927	3927	3927	3405	
F_{16}		3927	3927	3927	3927	3927	3927	3927	2627	2627	3927	3927		2831	3927	3927	3800	3800	3927	3927	3927	3927	2754	2754
F_{17}		3927	3927	3927	3927	3927	3927	3927	3927	3927	3927	3927	3927	3927	3927	3927	3927	3927	3927	3927	3927	3927	2856	
F_{18}		3927	3927	3927	3927	3927	3927	3927	3647	3647	3927	,	3927	0,2,	3927	3927	3927	3927	3927	3927	3927	3927	3927	3927
F_{19}		3927	3927	3927	3927	3927	3927	3927	3725	3752	3927		3927		3927	3927	3927	3927	3927	3927	3927	3927	3927	3927
F_{20}			3927	3927	3927	3927	3927		2576			3927				3927	3827	3927	3855	3927	3927	3927	3825	
w/t	12/7/1		19/1/0					16/4/0											18/2/0	0,-,	0,-,			7/10/3

TABLE SXXIII THE CHANGE OF 'W/L/T' OF LAMC-ACO (THE LEFT COLUMN) AND LAMS-ACO (THE RIGHT COLUMN) COMPARED WITH DIFFERENT ALGORITHMS WITH THE ACCURACY LEVEL INCREASING.

Accuracy Level										
Algorithm w/t/l	$\varepsilon = 1.0$	E - 01	$\varepsilon = 1.$	0E - 02	ε = 1.0	E – 03	$\varepsilon = 1.0$	0E - 04	ε = 1.	0E - 05
CDE	6/13/1	6/13/1	10/8/2	11/7/2	10/8/2	11/7/2	11/7/2	11/7/2	12/7/1	12/6/2
SDE	13/7/0	13/7/0	16/4/0	16/4/0	17/3/0	17/3/0	18/2/0	18/2/0	19/1/0	19/1/0
LIPS	12/8/0	12/8/0	13/5/2	13/6/1	13/5/2	13/6/1	13/5/2	13/6/1	13/5/2	13/6/1
R2PSO	10/10/0	10/10/0	14/6/0	15/5/0	15/5/0	15/5/0	15/5/0	16/4/0	16/4/0	16/4/0
NCDE	4/14/2	3/15/2	8/10/2	9/9/2	7/10/3	9/9/2	7/10/3	9/9/2	8/10/2	10/8/2
NSDE	7/12/1	7/12/1	15/5/0	15/5/0	18/2/0	18/2/0	18/2/0	18/2/0	18/2/0	18/2/0
Self_CCDE	3/15/2	3/15/2	6/10/4	7/10/3	7/9/4	8/9/3	7/9/4	8/9/3	7/9/4	8/9/3
Self_CSDE	10/10/0	10/10/0	13/7/0	14/6/0	14/5/1	15/5/0	14/5/1	13/7/0	15/4/1	14/3/3
LoICDE	3/15/2	3/15/2	8/10/2	8/10/2	9/9/2	10/8/2	11/9/0	11/8/1	13/7/0	13/7/0
LoISDE	8/12/0	8/12/0	16/4/0	16/4/0	18/2/0	18/2/0	18/2/0	18/2/0	18/2/0	18/2/0
PNPCDE	6/13/1	6/13/1	10/8/2	9/9/2	10/8/2	12/6/2	11/7/2	12/6/2	12/6/2	12/6/2
MOMMOP	3/14/3	2/15/3	5/9/6	5/10/5	5/10/5	7/10/3	5/10/5	7/10/3	4/12/4	7/10/3

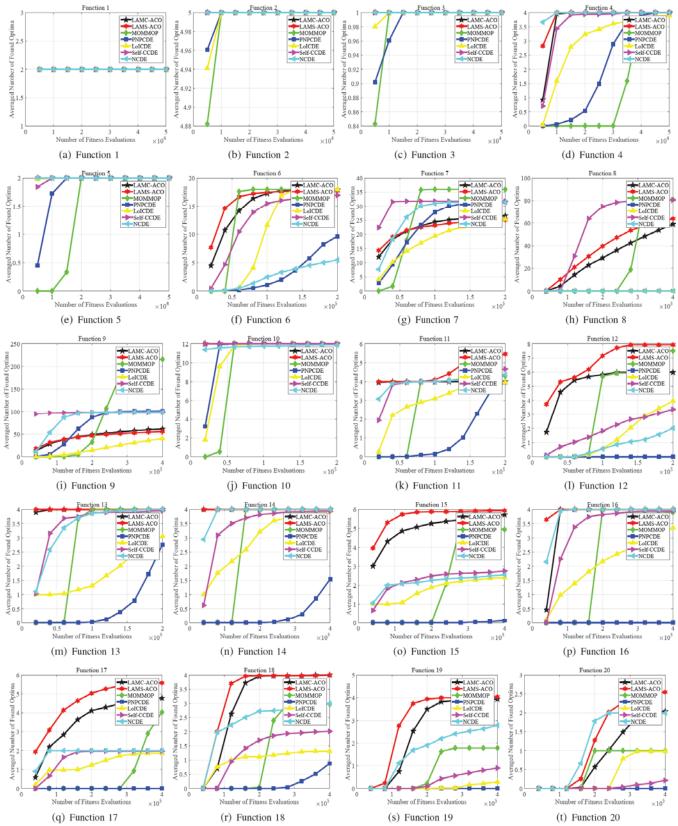


Fig. S2. Comparison results with respect to the number of found global optima at the accuracy level $\epsilon = 1.0E-04$ during the evolution process.

* In the following five tables (Tables SXXIV-SXXVIII), the comparison results with respect to PR and SR between LAMS-ACO and the winners of the CEC'2013 (NEA2) and the CEC'2015 (NMMSO) competitions on niching methods are presented with each table associated with one accuracy level. The best PR results are highlighted in bold in these tables and the last row (b/e/w) of these tables counts the number of functions on which LAMS-ACO is better than, equivalent to or worse than the compared winners. Note that whether LAMS-ACO is better than, equivalent to or worse than the compared winners is just determined by the values of PR without any statistical test validation, because we just cite the reported results of the two winners from the corresponding competitions (CEC'2013² and CEC'2015³) where the detailed results of these winners in each run are not available. Thus, to distinguish from the results obtained according to statistical tests, we utilize "b/e/w" in these tables, instead of "w/t/l" like in the above six tables.

TABLE SXXIV COMPARISON RESULTS BETWEEN LAM-ACOS AND THE TWO WINNERS (NEA2 AND NMMSO) WITH RESPECT TO PR AND SR AT ACCURACY LEVEL ϵ =1.0E-01.

	LAMS	S-ACO	NE	A2	NMI	MSO
F	PR	SR	PR	SR	PR	SR
F_1	1.000	1.000	1.000	1.000	1.000	1.000
F_2	1.000	1.000	1.000	1.000	1.000	1.000
F_3	1.000	1.000	1.000	1.000	1.000	1.000
F_4	1.000	1.000	1.000	1.000	1.000	1.000
F_5	1.000	1.000	1.000	1.000	1.000	1.000
F_6	0.992	0.863	0.963	0.480	0.998	0.960
F_7	1.000	1.000	0.946	0.160	1.000	1.000
F_8	0.803	0.000	0.241	0.000	0.954	0.060
F_9	0.350	0.000	0.622	0.000	0.978	0.120
F_{10}	1.000	1.000	1.000	1.000	1.000	1.000
F_{11}	1.000	1.000	0.980	0.880	0.990	0.940
F_{12}	0.985	0.882	0.853	0.180	0.995	0.960
F_{13}	0.993	0.980	0.977	0.860	0.990	0.940
F_{14}	1.000	1.000	0.830	0.160	0.770	0.020
F_{15}	0.995	0.980	0.743	0.020	0.650	0.000
F_{16}	1.000	1.000	0.673	0.000	0.660	0.000
F_{17}	0.988	0.961	0.695	0.000	0.480	0.000
F_{18}	1.000	1.000	0.667	0.000	0.650	0.000
F_{19}	0.897	0.784	0.667	0.000	0.460	0.000
F_{20}	0.632	0.451	0.363	0.000	0.180	0.000
b/e/w	-	-	13/	6/1	9/7	7/4

² https://github.com/mikeagn/CEC2013/tree/master/NichingCompetition2013FinalData

https://github.com/mikeagn/CEC2013/tree/master/NichingCompetition2015FinalData

 $TABLE~SXXV\\ COMPARISON~RESULTS~BETWEEN~LAM-ACOS~AND~THE~TWO~WINNERS~(NEA2~AND~NMMSO)~WITH~RESPECT~TO~PR~AND~SR~AT~ACCURACY~LEVEL~<math display="inline">\epsilon=1.0E-02.$

F	LAMS-ACO		NE	A2	NMMSO		
Г	PR	SR	PR	SR	PR	SR	
F_1	1.000	1.000	1.000	1.000	1.000	1.000	
F_2	1.000	1.000	1.000	1.000	1.000	1.000	
F_3	1.000	1.000	1.000	1.000	1.000	1.000	
F_4	1.000	1.000	1.000	1.000	1.000	1.000	
F_5	1.000	1.000	1.000	1.000	1.000	1.000	
F_6	0.992	0.863	0.963	0.480	0.994	0.900	
F_7	0.763	0.000	0.925	0.080	1.000	1.000	
F_8	0.791	0.000	0.240	0.000	0.939	0.040	
F_9	0.336	0.000	0.595	0.000	0.978	0.120	
F_{10}	1.000	1.000	1.000	1.000	1.000	1.000	
F_{11}	0.984	0.902	0.967	0.800	0.990	0.940	
F_{12}	0.983	0.863	0.850	0.180	0.995	0.960	
F_{13}	0.693	0.000	0.970	0.820	0.987	0.920	
F_{14}	0.667	0.000	0.817	0.100	0.740	0.020	
F_{15}	0.748	0.000	0.723	0.000	0.647	0.000	
F_{16}	0.667	0.000	0.673	0.000	0.660	0.000	
F_{17}	0.708	0.000	0.695	0.000	0.477	0.000	
F_{18}	0.667	0.000	0.667	0.000	0.650	0.000	
F_{19}	0.502	0.000	0.667	0.000	0.460	0.000	
F_{20}	0.348	0.000	0.360	0.000	0.175	0.000	
b/e/w	-		6/7/7		6/6/8		

TABLE SXXVI

COMPARISON RESULTS BETWEEN LAM-ACOS AND THE TWO WINNERS (NEA2 AND NMMSO) WITH RESPECT TO PR AND SR AT ACCURACY LEVEL €=1.0E-03.

F	LAMS-ACO		NE	A2.	NMMSO		
	PR	SR	PR	SR	PR	SR	
F_1	1.000	1.000	1.000	1.000	1.000	1.000	
F_2	1.000	1.000	1.000	1.000	1.000	1.000	
F_3	1.000	1.000	1.000	1.000	1.000	1.000	
F_4	1.000	1.000	1.000	1.000	1.000	1.000	
F_{5}	1.000	1.000	1.000	1.000	1.000	1.000	
F_6	0.990	0.824	0.958	0.440	0.992	0.880	
F_7	0.716	0.000	0.918	0.060	1.000	1.000	
$\overline{F_8}$	0.782	0.000	0.240	0.000	0.922	0.020	
F_9	0.295	0.000	0.584	0.000	0.978	0.120	
F_{10}	1.000	1.000	1.000	1.000	1.000	1.000	
F_{11}	0.974	0.843	0.967	0.800	0.990	0.940	
F_{12}	0.983	0.863	0.843	0.180	0.995	0.960	
F_{13}	0.676	0.000	0.960	0.760	0.983	0.900	
F_{14}	0.667	0.000	0.810	0.080	0.723	0.020	
F_{15}	0.748	0.000	0.720	0.000	0.642	0.000	
F_{16}	0.667	0.000	0.673	0.000	0.660	0.000	
F_{17}	0.708	0.000	0.695	0.000	0.470	0.000	
F_{18}	0.667	0.000	0.667	0.000	0.650	0.000	
F_{19}	0.502	0.000	0.667	0.000	0.457	0.000	
F_{20}	0.348	0.000	0.360	0.000	0.172	0.000	
b/e/w	-		6/7	7/7	6/6/8		

TABLE SXXVII COMPARISON RESULTS BETWEEN LAM-ACOS AND THE TWO WINNERS (NEA2 AND NMMSO) WITH RESPECT TO PR AND SR AT ACCURACY LEVEL ϵ =1.0E-04.

F	LAMS-ACO		NE	A2	NMMSO		
	PR	SR	PR	SR	PR	SR	
F_1	1.000	1.000	1.000	1.000	1.000	1.000	
F_2	1.000	1.000	1.000	1.000	1.000	1.000	
F_3	1.000	1.000	1.000	1.000	1.000	1.000	
F_4	1.000	1.000	1.000	1.000	1.000	1.000	
F_5	1.000	1.000	1.000	1.000	1.000	1.000	
F_6	0.990	0.824	0.950	0.380	0.992	0.880	
F_7	0.683	0.000	0.914	0.040	1.000	1.000	
F_8	0.765	0.000	0.240	0.000	0.899	0.020	
F_9	0.254	0.000	0.581	0.000	0.978	0.120	
F_{10}	1.000	1.000	0.988	0.860	1.000	1.000	
F_{11}	0.961	0.765	0.960	0.760	0.990	0.940	
F_{12}	0.983	0.863	0.840	0.160	0.993	0.940	
F_{13}	0.670	0.000	0.957	0.740	0.983	0.900	
F_{14}	0.667	0.000	0.807	0.060	0.720	0.000	
F_{15}	0.748	0.000	0.718	0.000	0.632	0.000	
F_{16}	0.667	0.000	0.673	0.000	0.660	0.000	
F_{17}	0.708	0.000	0.695	0.000	0.468	0.000	
F_{18}	0.667	0.000	0.667	0.000	0.650	0.000	
F_{19}	0.502	0.000	0.667	0.000	0.450	0.000	
F_{20}	0.346	0.000	0.360	0.000	0.172	0.000	
b/e/w	-		7/6/7		6/6/8		

TABLE SXXVIII

COMPARISON RESULTS BETWEEN LAM-ACOS AND THE TWO WINNERS (NEA2 AND NMMSO) WITH RESPECT TO PR AND SR AT ACCURACY LEVEL €=1.0E-05.

	LAMS-ACO		NF	A2	NMMSO		
F	PR	SR	PR	SR	PR	SR	
F_1	1.000	1.000	1.000	1.000	1.000	1.000	
F_2	1.000	1.000	1.000	1.000	1.000	1.000	
F_3	1.000	1.000	1.000	1.000	1.000	1.000	
F_4	1.000	1.000	0.990	0.960	1.000	1.000	
F_{5}	1.000	1.000	1.000	1.000	1.000	1.000	
F_6	0.990	0.824	0.000	0.000	0.000	0.000	
F_7	0.660	0.000	0.911	0.040	1.000	1.000	
F_8	0.647	0.000	0.239	0.000	0.870	0.000	
F_9	0.235	0.000	0.579	0.000	0.978	0.120	
F_{10}	1.000	1.000	0.980	0.760	1.000	1.000	
F_{11}	0.944	0.667	0.960	0.760	0.990	0.940	
F_{12}	0.980	0.843	0.833	0.140	0.990	0.920	
F_{13}	0.667	0.000	0.947	0.700	0.983	0.900	
F_{14}	0.667	0.000	0.800	0.060	0.720	0.000	
F_{15}	0.748	0.000	0.713	0.000	0.632	0.000	
F_{16}	0.667	0.000	0.673	0.000	0.660	0.000	
F_{17}	0.625	0.000	0.695	0.000	0.460	0.000	
F_{18}	0.667	0.000	0.663	0.000	0.650	0.000	
F_{19}	0.502	0.000	0.667	0.000	0.437	0.000	
F_{20}	0.333	0.000	0.350	0.000	0.172	0.000	
b/e/w			7/4	1/9	7/6/7		

IV. APPENDIX

In this section, we present how to obtain the critical value with respect to the rank sum for Wilcoxon Rank Sum test, when the sizes of samples are larger than 10.

Assume that there are two samples A and B whose sizes are n_A and n_B respectively, and w_A denotes the sum of the ranks for observations from A. Then, according to $[S1]^4$, we can treat the distribution of w_A as if it were normal distribution in the form of $N(\mu_A, \sigma_A)$, when both sample sizes are 10 or larger, where

$$\mu_{A} = \frac{n_{A}(n_{A} + n_{B} + 1)}{2}$$

$$\sigma_{A} = \sqrt{\frac{n_{A}n_{B}(n_{A} + n_{B} + 1)}{12}}$$
(S.1)

More precisely,

$$pr(W_A \ge w_A) \approx pr(Z \ge z) = 1 - pr(Z < z)$$

$$z = \frac{w_A - \mu_A}{\sigma_A}$$
(S.2)

At the significance level of α =0.05, we have

$$pr(Z \ge z) \le 0.05 \tag{S.3}$$

According to Eq. (S.2), we have

$$pr(Z < z) \ge 0.95 \tag{S.4}$$

Then, referring to the table values of the standard normal distribution shown in Table SXXIX, we have

$$\frac{w_A - \mu_A}{\sigma_A} \ge 1.65 \tag{S.5}$$

In our case, both of the two sample sizes are 51, namely $n_A = n_B = 51$. Thus, we can obtain

$$\mu_{A} = \frac{n_{A}(n_{A} + n_{B} + 1)}{2} = \frac{51 \times (51 + 51 + 1)}{2} = 2626.5$$

$$\sigma_{A} = \sqrt{\frac{n_{A}n_{B}(n_{A} + n_{B} + 1)}{12}} = \sqrt{\frac{51 \times 51 \times (51 + 51 + 1)}{12}} = 149.42$$
(S.6)

Based on Eq. (S.5), we can get

$$w_A \ge 1.65 \times \sigma_A + \mu_A = 1.65 \times 149.42 + 2626.5 \approx 2873$$
 (S.7)

Thus, the critical value of the Wilcoxon Rank Sum Test for 51 samples is 2873.

Reference

[S1] C. J. Wild, Chance encounters: A first course in data analysis and inference: Wiley, 2000.

⁴ Specifically, please refer to https://www.stat.auckland.ac.nz/~wild/ChanceEnc/Ch10.wilcoxon.pdf.

TABLE SXXIX TABLE VALUES FOR THE STANDARD NORMAL DISTRIBUTION

Z	.00	.01	.02	.03	.04	.05	.06	.07	.08	.09
0.0	.50000	.50399	.50798	.51197	.51595	.51994	.52392	.52790	.53188	.53586
0.1	.53983	.54380	.54776	.55172	.55567	.55962	.56356	.56749	.57142	.57535
0.2	.57926	.58317	.58706	.59095	.59483	.59871	.60257	.60642	.61026	.61409
0.3	.61791	.62172	.62552	.62930	.63307	.63683	.64058	.64431	.64803	.65173
0.4	.65542	.65910	.66276	.66640	.67003	.67364	.67724	.68082	.68439	.68793
0.5	.69146	.69497	.69847	.70194	.70540	.70884	.71226	.71566	.71904	.72240
0.6	.72575	.72907	.73237	.73565	.73891	.74215	.74537	.74857	.75175	.75490
0.7	.75804	.76115	.76424	.76730	.77035	.77337	.77637	.77935	.78230	.78524
0.8	.78814	.79103	.79389	.79673	.79955	.80234	.80511	.80785	.81057	.81327
0.9	.81594	.81859	.82121	.82381	.82639	.82894	.83147	.83398	.83646	.83891
1.0	.84134	.84375	.84614	.84849	.85083	.85314	.85543	.85769	.85993	.86214
1.1	.86433	.86650	.86864	.87076	.87286	.87493	.87698	.87900	.88100	.88298
1.2	.88493	.88686	.88877	.89065	.89251	.89435	.89617	.89796	.89973	.90147
1.3	.90320	.90490	.90658	.90824	.90988	.91149	.91309	.91466	.91621	.91774
1.4	.91924	.92073	.92220	.92364	.92507	.92647	.92785	.92922	.93056	.93189
1.5	.93319	.93448	.93574	.93699	.93822	.93943	.94062	.94179	.94295	.94408
1.6	.94520	.94630	.94738	.94845	.94950	.95053	.95154	.95254	.95352	.95449
1.7	.95543	.95637	.95728	.95818	.95907	.95994	.96080	.96164	.96246	.96327
1.8	.96407	.96485	.96562	.96638	.96712	.96784	.96856	.96926	.96995	.97062
1.9	.97128	.97193	.97257	.97320	.97381	.97441	.97500	.97558	.97615	.97670
2.0	.97725	.97778	.97831	.97882	.97932	.97982	.98030	.98077	.98124	.98169
2.1	.98214	.98257	.98300	.98341	.98382	.98422	.98461	.98500	.98537	.98574
2.2	.98610	.98645	.98679	.98713	.98745	.98778	.98809	.98840	.98870	.98899
2.3	.98928	.98956	.98983	.99010	.99036	.99061	.99086	.99111	.99134	.99158
2.4	.99180	.99202	.99224	.99245	.99266	.99286	.99305	.99324	.99343	.99361
2.5	.99379	.99396	.99413	.99430	.99446	.99461	.99477	.99492	.99506	.99520
2.6	.99534	.99547	.99560	.99573	.99585	.99598	.99609	.99621	.99632	.99643
2.7	.99653	.99664	.99674	.99683	.99693	.99702	.99711	.99720	.99728	.99736
2.8	.99744	.99752	.99760	.99767	.99774	.99781	.99788	.99795	.99801	.99807
2.9	.99813	.99819	.99825	.99831	.99836	.99841	.99846	.99851	.99856	.99861
3.0	.99865	.99869	.99874	.99878	.99882	.99886	.99889	.99893	.99896	.99900
3.1	.99903	.99906	.99910	.99913	.99916	.99918	.99921	.99924	.99926	.99929
3.2	.99931	.99934	.99936	.99938	.99940	.99942	.99944	.99946	.99948	.99950
3.3	.99952	.99953	.99955	.99957	.99958	.99960	.99961	.99962	.99964	.99965
3.4	.99966	.99968	.99969	.99970	.99971	.99972	.99973	.99974	.99975	.99976
3.5	.99977	.99978	.99978	.99979	.99980	.99981	.99981	.99982	.99983	.99983
3.6	.99984	.99985	.99985	.99986	.99986	.99987	.99987	.99988	.99988	.99989
3.7	.99989	.99990	.99990	.99990	.99991	.99991	.99992	.99992	.99992	.99992
3.8	.99993	.99993	.99993	.99994	.99994	.99994	.99994	.99995	.99995	.99995
3.9	.99995	.99995	.99996	.99996	.99996	.99996	.99996	.99996	.99997	.99997