

Time Resolution & Error

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Time Resolution

TABLE I: Time resolution obtained excluding each bar

time resolution[ps]	excluded bar	bar 1	bar 2	bar 3	bar 4	bar 5	bar 6	bar 7	bar 8	bar 9	bar 10	bar 11	bar 12
		Mean of σ_1											
σ_1		83.63	85.24	83.80	87.37	89.91	88.06	90.24	88.72	90.09	86.63	83.98	
σ_2		90.61		94.18	92.88	96.11	98.44	96.74	94.71	93.27	94.56	91.27	88.76
σ_3		87.89	90.08		87.17	90.61	93.07	91.28	89.12	90.63	91.96	88.58	85.99
σ_4		88.57	90.74	89.23		93.90	96.28	94.54	92.46	93.92	92.61	89.25	86.69
σ_5		86.06	88.29	86.74	88.13		87.22	85.31	83.00	84.62	83.17	86.76	84.12
σ_6		89.67	91.81	90.32	91.66	88.26		83.71	81.36	83.01	81.53	85.19	87.81
σ_7		88.85	91.01	89.51	90.86	87.43	84.81		84.46	86.05	84.63	88.16	90.69
σ_8		91.26	89.10	87.57	88.94	85.44	82.75	84.73		88.54	87.15	90.59	93.05
σ_9		82.14	79.74	81.43	82.91	79.13	76.23	78.36	80.81		77.56	81.40	84.13
σ_{10}		84.91	82.59	84.22	82.76	78.98	76.07	78.21	80.66	78.96		84.20	86.84
σ_{11}		84.49	82.15	83.79	82.32	85.95	83.29	85.25	87.50	85.93	87.34		86.42
σ_{12}		82.73	80.34	82.01	80.52	84.23	86.87	88.75	90.91	89.41	90.76	87.33	

Mean of σ_{12}

Sigma of Time Resolution

0	-3.4322	-1.8241	-3.2638	0.3072	2.8554	0.9991	3.1821	1.6648	3.0258	-0.4331	-3.0810
-3.1707	0	0.4052	-0.8957	2.3384	4.6604	2.9677	0.9347	-0.5099	0.7857	-2.5034	-5.0125
-1.7808	0.4064	0	-2.4986	0.9395	3.3990	1.6068	-0.5509	0.9598	2.2926	-1.0930	-3.6808
-3.0833	-0.9126	-2.4214	0	2.2450	4.6204	2.8891	0.8076	2.2646	0.9600	-2.4008	-4.9684
0.2950	2.5274	0.9760	2.3676	0	1.4582	-0.4567	-2.7694	-1.1493	-2.5997	0.9973	-1.6464
2.9105	5.0553	3.5644	4.9016	1.5044	0	-3.0435	-5.4015	-3.7494	-5.2284	-1.5623	1.0489
0.9895	3.1535	1.6493	2.9985	-0.4298	-3.0526	0	-3.4003	-1.8078	-3.2336	0.3038	2.8296
3.1577	0.9997	-0.5373	0.8413	-2.6637	-5.3496	-3.3770	0	0.4367	-0.9484	2.4903	4.9502
1.7956	-0.6088	1.0761	2.5569	-1.2151	-4.1228	-1.9857	0.4596	0	-2.7917	1.0535	3.7825
3.2417	0.9180	2.5459	1.0885	-2.6905	-5.6040	-3.4626	-1.0126	-2.7138	0	2.5240	5.1653
-0.4608	-2.7966	-1.1602	-2.6252	1.0071	-1.6622	0.2982	2.5514	0.9857	2.3901	0	1.4723
-3.0766	-5.4636	-3.7910	-5.2883	-1.5781	1.0623	2.9436	5.1101	3.6042	4.9549	1.5227	0

Stdev = 2.75

Error

TABLE II: Error of time resolution obtained excluding each bar

error of time resolution[ps]	excluded bar	bar 1	bar 2	bar 3	bar 4	bar 5	bar 6	bar 7	bar 8	bar 9	bar 10	bar 11	bar 12
$\Delta\sigma_1$			2.8105	2.8483	2.9327	2.8913	2.8526	2.9084	2.7866	2.8215	2.7370	2.7741	2.8059
$\Delta\sigma_2$		2.5810		2.5777	2.6458	2.6281	2.6056	2.6473	2.6551	2.6841	2.6075	2.6328	2.6546
$\Delta\sigma_3$		2.6609	2.6093		2.8192	2.7878	2.7560	2.8059	2.8218	2.7622	2.6812	2.7130	2.7403
$\Delta\sigma_4$		2.6403	2.5902	2.7207		2.6901	2.6641	2.7089	2.7197	2.6654	2.6623	2.6924	2.7182
$\Delta\sigma_5$		2.7174	2.6620	2.7988	2.7884		2.9406	3.0022	3.0299	2.9585	2.9648	2.7697	2.8012
$\Delta\sigma_6$		2.6080	2.5600	2.6879	2.6811	2.8620		3.0594	3.0910	3.0158	3.0243	2.8207	2.6836
$\Delta\sigma_7$		2.6321	2.5824	2.7123	2.7047	2.8892	3.0244		2.9774	2.9091	2.9136	2.7257	2.5982
$\Delta\sigma_8$		2.5625	2.6378	2.7725	2.7629	2.9565	3.0994	3.0228		2.8274	2.8291	2.6526	2.5322
$\Delta\sigma_9$		2.8469	2.9475	2.9816	2.9642	3.1921	3.3649	3.2682	3.1119		3.1791	2.9521	2.8008
$\Delta\sigma_{10}$		2.7540	2.8458	2.8827	2.9694	3.1982	3.3718	3.2747	3.1176	3.1705		2.8541	2.7135
$\Delta\sigma_{11}$		2.7680	2.8610	2.8975	2.9852	2.9388	3.0797	3.0044	2.8740	2.9131	2.8231		2.7266
$\Delta\sigma_{12}$		2.8269	2.9255	2.9602	3.0522	2.9991	2.9527	2.8859	2.7660	2.7999	2.7167	2.7518	