

Table 0.1: Simulations results, 10,000 iterations, $\lambda_Z = 1$. 7 January 2021.

model	n=100					n=500					n=1000					n=2000				
	bias	MAE	RMSE	Coverage rate	Quantile .95	bias	MAE	RMSE	Coverage rate	Quantile .95	bias	MAE	RMSE	Coverage rate	Quantile .95	bias	MAE	RMSE	Coverage rate	Quantile .95
$\lambda_X=0.2, \alpha_Y=6 - b_2 + d_2=0.97$																				
standard_kernel	-4.199	4.199	0.269	0.0	-37.151	-3.979	3.979	0.247	0.0	-79.31	-3.891	3.891	0.227	0.0	-109.612	-3.813	3.813	0.206	0.0	-109.612
standard_xavier	-4.199	4.199	0.269	0.0	-37.151	-3.979	3.979	0.247	0.0	-79.31	-3.891	3.891	0.227	0.0	-109.612	-3.813	3.813	0.206	0.0	-109.612
smooth_kernel	-4.222	4.222	0.256	0.097	-37.72	-4.003	4.003	0.235	0.315	-80.29	-3.914	3.914	0.216	0.433	-111.044	-3.834	3.834	0.198	0.556	-111.044
smooth_ls	-4.222	4.222	0.256	0.0	-37.72	-4.003	4.003	0.235	0.0	-80.29	-3.914	3.914	0.216	0.0	-111.044	-3.834	3.834	0.198	0.0	-111.044
smooth_xavier	-4.222	4.222	0.256	0.0	-37.72	-4.003	4.003	0.235	0.0	-80.29	-3.914	3.914	0.216	0.0	-111.044	-3.834	3.834	0.198	0.0	-111.044
$\lambda_X=0.2, \alpha_Y=7 - b_2 + d_2=0.94$																				
standard_kernel	-1.855	1.855	0.196	0.0	-14.946	-1.694	1.694	0.18	0.0	-30.831	-1.628	1.628	0.162	0.0	-41.743	-1.569	1.569	0.148	0.0	-41.743
standard_xavier	-1.855	1.855	0.196	0.001	-14.946	-1.694	1.694	0.18	0.001	-30.831	-1.628	1.628	0.162	0.0	-41.743	-1.569	1.569	0.148	0.0	-41.743
smooth_kernel	-1.873	1.873	0.187	0.094	-15.304	-1.711	1.712	0.172	0.29	-31.563	-1.644	1.644	0.155	0.411	-42.628	-1.585	1.585	0.142	0.53	-42.628
smooth_ls	-1.873	1.873	0.187	0.002	-15.304	-1.711	1.712	0.172	0.001	-31.563	-1.644	1.644	0.155	0.001	-42.628	-1.585	1.585	0.142	0.0	-42.628
smooth_xavier	-1.873	1.873	0.187	0.001	-15.304	-1.711	1.712	0.172	0.001	-31.563	-1.644	1.644	0.155	0.0	-42.628	-1.585	1.585	0.142	0.0	-42.628
$\lambda_X=0.2, \alpha_Y=10 - b_2 + d_2=0.9$																				
standard_kernel	-0.596	0.597	0.109	0.005	-3.96	-0.509	0.509	0.092	0.003	-7.668	-0.474	0.474	0.084	0.002	-10.068	-0.443	0.443	0.075	0.001	-10.068
standard_xavier	-0.596	0.597	0.109	0.007	-3.96	-0.509	0.509	0.092	0.005	-7.668	-0.474	0.474	0.084	0.006	-10.068	-0.443	0.443	0.075	0.003	-10.068
smooth_kernel	-0.607	0.607	0.104	0.095	-4.139	-0.518	0.519	0.088	0.262	-8.098	-0.483	0.483	0.081	0.351	-10.544	-0.451	0.451	0.072	0.458	-10.544
smooth_ls	-0.607	0.607	0.104	0.014	-4.139	-0.518	0.519	0.088	0.009	-8.098	-0.483	0.483	0.081	0.01	-10.544	-0.451	0.451	0.072	0.006	-10.544
smooth_xavier	-0.607	0.607	0.104	0.008	-4.139	-0.518	0.519	0.088	0.006	-8.098	-0.483	0.483	0.081	0.007	-10.544	-0.451	0.451	0.072	0.005	-10.544
$\lambda_X=0.3, \alpha_Y=4 - b_2 + d_2=0.95$																				
standard_kernel	-3.819	3.824	0.494	0.004	-30.0	-3.54	3.541	0.407	0.001	-62.809	-3.436	3.436	0.338	0.0	-89.022	-3.35	3.35	0.288	0.0	-89.022
standard_xavier	-3.819	3.824	0.494	0.005	-30.0	-3.54	3.541	0.407	0.002	-62.809	-3.436	3.436	0.338	0.0	-89.022	-3.35	3.35	0.288	0.0	-89.022
smooth_kernel	-3.867	3.87	0.466	0.158	-31.017	-3.585	3.586	0.382	0.443	-65.215	-3.478	3.478	0.32	0.589	-91.43	-3.388	3.388	0.273	0.718	-91.43
smooth_ls	-3.867	3.87	0.466	0.006	-31.017	-3.585	3.586	0.382	0.002	-65.215	-3.478	3.478	0.32	0.001	-91.43	-3.388	3.388	0.273	0.0	-91.43
smooth_xavier	-3.867	3.87	0.466	0.005	-31.017	-3.585	3.586	0.382	0.002	-65.215	-3.478	3.478	0.32	0.0	-91.43	-3.388	3.388	0.273	0.0	-91.43
$\lambda_X=0.3, \alpha_Y=6 - b_2 + d_2=0.87$																				
standard_kernel	-0.623	0.63	0.189	0.034	-2.894	-0.504	0.508	0.149	0.023	-5.36	-0.462	0.464	0.128	0.019	-7.034	-0.424	0.425	0.113	0.012	-7.034
standard_xavier	-0.623	0.63	0.189	0.053	-2.894	-0.504	0.508	0.149	0.043	-5.36	-0.462	0.464	0.128	0.037	-7.034	-0.424	0.425	0.113	0.034	-7.034
smooth_kernel	-0.645	0.65	0.179	0.164	-3.29	-0.522	0.526	0.141	0.395	-6.193	-0.479	0.48	0.122	0.509	-7.915	-0.439	0.44	0.107	0.628	-7.915
smooth_ls	-0.645	0.65	0.179	0.07	-3.29	-0.522	0.526	0.141	0.056	-6.193	-0.479	0.48	0.122	0.048	-7.915	-0.439	0.44	0.107	0.045	-7.915
smooth_xavier	-0.645	0.65	0.179	0.056	-3.29	-0.522	0.526	0.141	0.048	-6.193	-0.479	0.48	0.122	0.042	-7.915	-0.439	0.44	0.107	0.04	-7.915
$\lambda_X=0.3, \alpha_Y=7 - b_2 + d_2=0.84$																				
standard_kernel	-0.402	0.407	0.141	0.055	-1.481	-0.314	0.318	0.105	0.039	-2.669	-0.281	0.284	0.098	0.037	-3.176	-0.253	0.255	0.083	0.028	-3.176
standard_xavier	-0.402	0.407	0.141	0.077	-1.481	-0.314	0.318	0.105	0.07	-2.669	-0.281	0.284	0.098	0.068	-3.176	-0.253	0.255	0.083	0.065	-3.176
smooth_kernel	-0.418	0.422	0.133	0.17	-1.777	-0.328	0.33	0.099	0.363	-3.219	-0.294	0.296	0.093	0.477	-3.917	-0.264	0.265	0.079	0.593	-3.917
smooth_ls	-0.418	0.422	0.133	0.106	-1.777	-0.328	0.33	0.099	0.086	-3.219	-0.294	0.296	0.093	0.083	-3.917	-0.264	0.265	0.079	0.078	-3.917
smooth_xavier	-0.418	0.422	0.133	0.083	-1.777	-0.328	0.33	0.099	0.076	-3.219	-0.294	0.296	0.093	0.074	-3.917	-0.264	0.265	0.079	0.072	-3.917
$\lambda_X=0.3, \alpha_Y=10 - b_2 + d_2=0.8$																				
standard_kernel	-0.18	0.184	0.075	0.106	-0.426	-0.129	0.132	0.056	0.09	-0.56	-0.115	0.117	0.048	0.073	-0.898	-0.1	0.101	0.042	0.066	-0.898
standard_xavier	-0.18	0.184	0.075	0.136	-0.426	-0.129	0.132	0.056	0.135	-0.56	-0.115	0.117	0.048	0.122	-0.898	-0.1	0.101	0.042	0.119	-0.898
smooth_kernel	-0.19	0.192	0.072	0.2	-0.599	-0.137	0.139	0.054	0.349	-0.847	-0.121	0.123	0.046	0.423	-1.207	-0.105	0.107	0.04	0.516	-1.207
smooth_ls	-0.19	0.192	0.072	0.178	-0.599	-0.137	0.139	0.054	0.167	-0.847	-0.121	0.123	0.046	0.147	-1.207	-0.105	0.107	0.04	0.143	-1.207
smooth_xavier	-0.19	0.192	0.072	0.146	-0.599	-0.137	0.139	0.054	0.143	-0.847	-0.121	0.123	0.046	0.13	-1.207	-0.105	0.107	0.04	0.13	-1.207
$\lambda_X=0.5, \alpha_Y=3 - b_2 + d_2=0.83$																				

standard_kernel	-0.789	0.871	0.559	0.171	0.508	-0.614	0.668	0.418	0.137	0.544	-0.57	0.595	0.282	0.109	-1.873	-0.533	0.543	0.214	0.071
standard_xavier	-0.789	0.871	0.559	0.226	0.508	-0.614	0.668	0.418	0.217	0.544	-0.57	0.595	0.282	0.195	-1.873	-0.533	0.543	0.214	0.153
smooth_kernel	-0.851	0.913	0.509	0.331	-0.793	-0.663	0.704	0.39	0.605	-1.806	-0.611	0.629	0.264	0.737	-4.377	-0.566	0.574	0.202	0.845
smooth_ls	-0.851	0.913	0.509	0.238	-0.793	-0.663	0.704	0.39	0.22	-1.806	-0.611	0.629	0.264	0.195	-4.377	-0.566	0.574	0.202	0.152
smooth_xavier	-0.851	0.913	0.509	0.221	-0.793	-0.663	0.704	0.39	0.213	-1.806	-0.611	0.629	0.264	0.187	-4.377	-0.566	0.574	0.202	0.149
$\lambda_X=0.5, \alpha_Y=4 - b_2 + d_2=0.75$																			
standard_kernel	-0.258	0.313	0.266	0.342	1.573	-0.174	0.209	0.166	0.331	2.339	-0.152	0.174	0.125	0.311	2.501	-0.135	0.149	0.097	0.272
standard_xavier	-0.258	0.313	0.266	0.405	1.573	-0.174	0.209	0.166	0.419	2.339	-0.152	0.174	0.125	0.422	2.501	-0.135	0.149	0.097	0.398
smooth_kernel	-0.29	0.331	0.244	0.436	0.917	-0.197	0.223	0.156	0.623	1.319	-0.171	0.187	0.117	0.713	1.324	-0.15	0.16	0.091	0.801
smooth_ls	-0.29	0.331	0.244	0.422	0.917	-0.197	0.223	0.156	0.421	1.319	-0.171	0.187	0.117	0.417	1.324	-0.15	0.16	0.091	0.394
smooth_xavier	-0.29	0.331	0.244	0.398	0.917	-0.197	0.223	0.156	0.409	1.319	-0.171	0.187	0.117	0.407	1.324	-0.15	0.16	0.091	0.388
$\lambda_X=0.5, \alpha_Y=6 - b_2 + d_2=0.67$																			
standard_kernel	-0.086	0.117	0.105	0.512	1.036	-0.053	0.07	0.063	0.528	1.375	-0.041	0.055	0.05	0.542	1.52	-0.034	0.044	0.039	0.53
standard_xavier	-0.086	0.117	0.105	0.57	1.036	-0.053	0.07	0.063	0.607	1.375	-0.041	0.055	0.05	0.631	1.52	-0.034	0.044	0.039	0.627
smooth_kernel	-0.101	0.123	0.098	0.563	0.761	-0.062	0.075	0.06	0.681	1.013	-0.049	0.059	0.048	0.749	1.11	-0.04	0.047	0.037	0.799
smooth_ls	-0.101	0.123	0.098	0.584	0.761	-0.062	0.075	0.06	0.608	1.013	-0.049	0.059	0.048	0.627	1.11	-0.04	0.047	0.037	0.622
smooth_xavier	-0.101	0.123	0.098	0.561	0.761	-0.062	0.075	0.06	0.597	1.013	-0.049	0.059	0.048	0.618	1.11	-0.04	0.047	0.037	0.615
$\lambda_X=0.5, \alpha_Y=7 - b_2 + d_2=0.64$																			
standard_kernel	-0.063	0.086	0.08	0.555	0.825	-0.035	0.05	0.048	0.591	1.086	-0.027	0.039	0.038	0.595	1.283	-0.023	0.031	0.029	0.594
standard_xavier	-0.063	0.086	0.08	0.607	0.825	-0.035	0.05	0.048	0.656	1.086	-0.027	0.039	0.038	0.669	1.283	-0.023	0.031	0.029	0.676
smooth_kernel	-0.074	0.091	0.076	0.596	0.601	-0.043	0.053	0.046	0.706	0.833	-0.033	0.042	0.036	0.758	0.956	-0.027	0.033	0.028	0.806
smooth_ls	-0.074	0.091	0.076	0.62	0.601	-0.043	0.053	0.046	0.66	0.833	-0.033	0.042	0.036	0.669	0.956	-0.027	0.033	0.028	0.67
smooth_xavier	-0.074	0.091	0.076	0.596	0.601	-0.043	0.053	0.046	0.648	0.833	-0.033	0.042	0.036	0.66	0.956	-0.027	0.033	0.028	0.663
$\lambda_X=0.5, \alpha_Y=10 - b_2 + d_2=0.6$																			
standard_kernel	-0.033	0.048	0.047	0.618	0.528	-0.017	0.026	0.026	0.669	0.656	-0.013	0.02	0.02	0.68	0.722	-0.01	0.015	0.016	0.688
standard_xavier	-0.033	0.048	0.047	0.659	0.528	-0.017	0.026	0.026	0.725	0.656	-0.013	0.02	0.02	0.738	0.722	-0.01	0.015	0.016	0.748
smooth_kernel	-0.039	0.051	0.044	0.645	0.413	-0.021	0.028	0.025	0.747	0.528	-0.016	0.021	0.02	0.785	0.583	-0.012	0.016	0.015	0.825
smooth_ls	-0.039	0.051	0.044	0.674	0.413	-0.021	0.028	0.025	0.725	0.528	-0.016	0.021	0.02	0.738	0.583	-0.012	0.016	0.015	0.746
smooth_xavier	-0.039	0.051	0.044	0.65	0.413	-0.021	0.028	0.025	0.714	0.528	-0.016	0.021	0.02	0.731	0.583	-0.012	0.016	0.015	0.741
$\lambda_X=0.8, \alpha_Y=1.5 - b_2 + d_2=0.87$																			
standard_kernel	-1.877	2.826	4.191	0.255	17.451	-1.615	2.234	3.255	0.224	23.096	-1.564	2.031	2.555	0.198	17.362	-1.527	1.873	2.551	0.155
standard_xavier	-1.877	2.826	4.191	0.312	17.451	-1.615	2.234	3.255	0.314	23.096	-1.564	2.031	2.555	0.297	17.362	-1.527	1.873	2.551	0.251
smooth_kernel	-2.177	2.862	3.191	0.38	9.609	-1.831	2.308	2.874	0.631	9.381	-1.73	2.121	2.441	0.746	4.055	-1.651	1.954	2.372	0.858
smooth_ls	-2.177	2.862	3.191	0.298	9.609	-1.831	2.308	2.874	0.295	9.381	-1.73	2.121	2.441	0.274	4.055	-1.651	1.954	2.372	0.227
smooth_xavier	-2.177	2.862	3.191	0.292	9.609	-1.831	2.308	2.874	0.29	9.381	-1.73	2.121	2.441	0.273	4.055	-1.651	1.954	2.372	0.226
$\lambda_X=0.8, \alpha_Y=2 - b_2 + d_2=0.7$																			
standard_kernel	-0.206	0.584	0.977	0.586	10.354	-0.151	0.358	0.528	0.591	12.713	-0.132	0.283	0.386	0.599	13.43	-0.13	0.223	0.256	0.583
standard_xavier	-0.206	0.584	0.977	0.64	10.354	-0.151	0.358	0.528	0.68	12.713	-0.132	0.283	0.386	0.703	13.43	-0.13	0.223	0.256	0.698
smooth_kernel	-0.302	0.58	0.772	0.619	7.96	-0.208	0.364	0.476	0.753	9.76	-0.176	0.29	0.356	0.834	10.41	-0.162	0.233	0.241	0.894
smooth_ls	-0.302	0.58	0.772	0.62	7.96	-0.208	0.364	0.476	0.656	9.76	-0.176	0.29	0.356	0.676	10.41	-0.162	0.233	0.241	0.67
smooth_xavier	-0.302	0.58	0.772	0.619	7.96	-0.208	0.364	0.476	0.655	9.76	-0.176	0.29	0.356	0.676	10.41	-0.162	0.233	0.241	0.669
$\lambda_X=0.8, \alpha_Y=3 - b_2 + d_2=0.53$																			
standard_kernel	-0.041	0.161	0.222	0.774	3.278	-0.019	0.088	0.116	0.808	3.925	-0.015	0.065	0.082	0.82	4.087	-0.014	0.047	0.058	0.833
standard_xavier	-0.041	0.161	0.222	0.808	3.278	-0.019	0.088	0.116	0.859	3.925	-0.015	0.065	0.082	0.87	4.087	-0.014	0.047	0.058	0.882
smooth_kernel	-0.069	0.16	0.201	0.786	2.615	-0.034	0.087	0.109	0.866	3.266	-0.027	0.065	0.077	0.903	3.425	-0.021	0.047	0.055	0.932
smooth_ls	-0.069	0.16	0.201	0.798	2.615	-0.034	0.087	0.109	0.844	3.266	-0.027	0.065	0.077	0.863	3.425	-0.021	0.047	0.055	0.872
smooth_xavier	-0.069	0.16	0.201	0.796	2.615	-0.034	0.087	0.109	0.844	3.266	-0.027	0.065	0.077	0.862	3.425	-0.021	0.047	0.055	0.873

	$\lambda_X=0.8, \alpha_Y=4 - b_2 + d_2=0.45$																		
standard_kernel	-0.019	0.088	0.114	0.816	1.811	-0.008	0.044	0.057	0.863	2.018	-0.006	0.032	0.041	0.872	2.107	-0.004	0.024	0.03	0.882
standard_xavier	-0.019	0.088	0.114	0.841	1.811	-0.008	0.044	0.057	0.895	2.018	-0.006	0.032	0.041	0.905	2.107	-0.004	0.024	0.03	0.915
smooth_kernel	-0.034	0.087	0.106	0.824	1.538	-0.015	0.044	0.054	0.894	1.721	-0.011	0.032	0.039	0.924	1.847	-0.008	0.024	0.029	0.943
smooth_ls	-0.034	0.087	0.106	0.834	1.538	-0.015	0.044	0.054	0.888	1.721	-0.011	0.032	0.039	0.9	1.847	-0.008	0.024	0.029	0.911
smooth_xavier	-0.034	0.087	0.106	0.831	1.538	-0.015	0.044	0.054	0.887	1.721	-0.011	0.032	0.039	0.901	1.847	-0.008	0.024	0.029	0.911
	$\lambda_X=0.8, \alpha_Y=6 - b_2 + d_2=0.37$																		
standard_kernel	-0.007	0.044	0.056	0.863	0.95	-0.002	0.022	0.027	0.894	1.022	-0.002	0.015	0.019	0.907	0.992	-0.001	0.011	0.014	0.915
standard_xavier	-0.007	0.044	0.056	0.88	0.95	-0.002	0.022	0.027	0.917	1.022	-0.002	0.015	0.019	0.93	0.992	-0.001	0.011	0.014	0.935
smooth_kernel	-0.014	0.044	0.053	0.868	0.801	-0.006	0.021	0.026	0.918	0.9	-0.004	0.015	0.019	0.935	0.893	-0.003	0.011	0.014	0.952
smooth_ls	-0.014	0.044	0.053	0.876	0.801	-0.006	0.021	0.026	0.915	0.9	-0.004	0.015	0.019	0.926	0.893	-0.003	0.011	0.014	0.933
smooth_xavier	-0.014	0.044	0.053	0.873	0.801	-0.006	0.021	0.026	0.915	0.9	-0.004	0.015	0.019	0.925	0.893	-0.003	0.011	0.014	0.932
	$\lambda_X=0.8, \alpha_Y=7 - b_2 + d_2=0.34$																		
standard_kernel	-0.006	0.035	0.045	0.868	0.742	-0.002	0.017	0.021	0.904	0.79	-0.002	0.012	0.015	0.906	0.782	-0.001	0.009	0.011	0.917
standard_xavier	-0.006	0.035	0.045	0.883	0.742	-0.002	0.017	0.021	0.922	0.79	-0.002	0.012	0.015	0.923	0.782	-0.001	0.009	0.011	0.935
smooth_kernel	-0.012	0.035	0.042	0.871	0.632	-0.005	0.017	0.021	0.924	0.71	-0.003	0.012	0.015	0.93	0.708	-0.002	0.009	0.011	0.949
smooth_ls	-0.012	0.035	0.042	0.878	0.632	-0.005	0.017	0.021	0.919	0.71	-0.003	0.012	0.015	0.921	0.708	-0.002	0.009	0.011	0.933
smooth_xavier	-0.012	0.035	0.042	0.875	0.632	-0.005	0.017	0.021	0.92	0.71	-0.003	0.012	0.015	0.92	0.708	-0.002	0.009	0.011	0.933
	$\lambda_X=0.8, \alpha_Y=10 - b_2 + d_2=0.3$																		
standard_kernel	-0.003	0.022	0.028	0.886	0.477	-0.001	0.01	0.013	0.911	0.467	-0.001	0.007	0.009	0.919	0.492	-0.0	0.005	0.007	0.928
standard_xavier	-0.003	0.022	0.028	0.899	0.477	-0.001	0.01	0.013	0.926	0.467	-0.001	0.007	0.009	0.934	0.492	-0.0	0.005	0.007	0.94
smooth_kernel	-0.006	0.022	0.026	0.89	0.413	-0.003	0.01	0.012	0.928	0.42	-0.001	0.007	0.009	0.942	0.448	-0.001	0.005	0.007	0.95
smooth_ls	-0.006	0.022	0.026	0.897	0.413	-0.003	0.01	0.012	0.925	0.42	-0.001	0.007	0.009	0.935	0.448	-0.001	0.005	0.007	0.939
smooth_xavier	-0.006	0.022	0.026	0.894	0.413	-0.003	0.01	0.012	0.924	0.42	-0.001	0.007	0.009	0.935	0.448	-0.001	0.005	0.007	0.939
	$\lambda_X=0.9, \alpha_Y=1.5 - b_2 + d_2=0.77$																		
standard_kernel	-0.4	1.361	3.389	0.511	22.443	-0.339	0.908	1.808	0.514	30.979	-0.276	0.806	6.689	0.507	30.221	-0.323	0.646	1.982	0.468
standard_xavier	-0.4	1.361	3.389	0.557	22.443	-0.339	0.908	1.808	0.596	30.979	-0.276	0.806	6.689	0.6	30.221	-0.323	0.646	1.982	0.58
smooth_kernel	-0.615	1.333	3.051	0.548	15.773	-0.477	0.909	1.678	0.689	21.895	-0.375	0.823	6.678	0.763	22.652	-0.414	0.652	0.952	0.836
smooth_ls	-0.615	1.333	3.051	0.53	15.773	-0.477	0.909	1.678	0.563	21.895	-0.375	0.823	6.678	0.565	22.652	-0.414	0.652	0.952	0.543
smooth_xavier	-0.615	1.333	3.051	0.532	15.773	-0.477	0.909	1.678	0.566	21.895	-0.375	0.823	6.678	0.569	22.652	-0.414	0.652	0.952	0.546
	$\lambda_X=0.9, \alpha_Y=2 - b_2 + d_2=0.6$																		
standard_kernel	-0.058	0.391	0.7	0.722	8.55	-0.033	0.22	0.364	0.759	10.256	-0.035	0.164	0.258	0.768	10.344	-0.037	0.124	0.173	0.773
standard_xavier	-0.058	0.391	0.7	0.753	8.55	-0.033	0.22	0.364	0.816	10.256	-0.035	0.164	0.258	0.828	10.344	-0.037	0.124	0.173	0.834
smooth_kernel	-0.128	0.379	0.627	0.735	6.837	-0.072	0.216	0.329	0.827	8.548	-0.062	0.163	0.242	0.861	8.362	-0.056	0.125	0.164	0.904
smooth_ls	-0.128	0.379	0.627	0.733	6.837	-0.072	0.216	0.329	0.797	8.548	-0.062	0.163	0.242	0.806	8.362	-0.056	0.125	0.164	0.815
smooth_xavier	-0.128	0.379	0.627	0.736	6.837	-0.072	0.216	0.329	0.799	8.548	-0.062	0.163	0.242	0.81	8.362	-0.056	0.125	0.164	0.818
	$\lambda_X=0.9, \alpha_Y=3 - b_2 + d_2=0.43$																		
standard_kernel	-0.013	0.128	0.187	0.836	2.892	-0.004	0.065	0.091	0.872	3.259	-0.005	0.046	0.061	0.885	3.047	-0.004	0.033	0.042	0.895
standard_xavier	-0.013	0.128	0.187	0.852	2.892	-0.004	0.065	0.091	0.902	3.259	-0.005	0.046	0.061	0.913	3.047	-0.004	0.033	0.042	0.923
smooth_kernel	-0.034	0.124	0.17	0.842	2.404	-0.014	0.063	0.086	0.901	2.803	-0.012	0.045	0.057	0.922	2.643	-0.008	0.033	0.041	0.944
smooth_ls	-0.034	0.124	0.17	0.842	2.404	-0.014	0.063	0.086	0.898	2.803	-0.012	0.045	0.057	0.906	2.643	-0.008	0.033	0.041	0.918
smooth_xavier	-0.034	0.124	0.17	0.843	2.404	-0.014	0.063	0.086	0.896	2.803	-0.012	0.045	0.057	0.907	2.643	-0.008	0.033	0.041	0.919
	$\lambda_X=0.9, \alpha_Y=4 - b_2 + d_2=0.35$																		
standard_kernel	-0.006	0.072	0.096	0.866	1.617	-0.002	0.034	0.044	0.901	1.689	-0.002	0.025	0.032	0.904	1.74	-0.001	0.018	0.022	0.919
standard_xavier	-0.006	0.072	0.096	0.88	1.617	-0.002	0.034	0.044	0.922	1.689	-0.002	0.025	0.032	0.93	1.74	-0.001	0.018	0.022	0.939
smooth_kernel	-0.017	0.071	0.09	0.872	1.399	-0.007	0.034	0.042	0.921	1.505	-0.005	0.025	0.031	0.937	1.569	-0.003	0.018	0.022	0.956
smooth_ls	-0.017	0.071	0.09	0.876	1.399	-0.007	0.034	0.042	0.918	1.505	-0.005	0.025	0.031	0.926	1.569	-0.003	0.018	0.022	0.936

smooth_xavier	-0.017	0.071	0.09	0.874	1.399	-0.007	0.034	0.042	0.919	1.505	-0.005	0.025	0.031	0.925	1.569	-0.003	0.018	0.022	0.938	
	$\lambda_X=0.9, \alpha_Y=6 - b_2 + d_2=0.27$																			
standard_kernel	-0.002	0.038	0.05	0.894	0.817	-0.001	0.018	0.022	0.915	0.861	-0.001	0.013	0.016	0.925	0.842	-0.001	0.009	0.011	0.924	
standard_xavier	-0.002	0.038	0.05	0.905	0.817	-0.001	0.018	0.022	0.931	0.861	-0.001	0.013	0.016	0.939	0.842	-0.001	0.009	0.011	0.937	
smooth_kernel	-0.008	0.037	0.047	0.898	0.715	-0.003	0.017	0.022	0.931	0.785	-0.002	0.012	0.015	0.941	0.779	-0.001	0.009	0.011	0.947	
smooth_ls	-0.008	0.037	0.047	0.901	0.715	-0.003	0.017	0.022	0.929	0.785	-0.002	0.012	0.015	0.936	0.779	-0.001	0.009	0.011	0.935	
smooth_xavier	-0.008	0.037	0.047	0.9	0.715	-0.003	0.017	0.022	0.929	0.785	-0.002	0.012	0.015	0.937	0.779	-0.001	0.009	0.011	0.935	
	$\lambda_X=0.9, \alpha_Y=7 - b_2 + d_2=0.24$																			
standard_kernel	-0.002	0.03	0.039	0.897	0.672	-0.001	0.014	0.018	0.918	0.678	-0.0	0.01	0.012	0.932	0.672	-0.0	0.007	0.009	0.932	
standard_xavier	-0.002	0.03	0.039	0.907	0.672	-0.001	0.014	0.018	0.932	0.678	-0.0	0.01	0.012	0.944	0.672	-0.0	0.007	0.009	0.943	
smooth_kernel	-0.006	0.029	0.037	0.901	0.586	-0.003	0.014	0.017	0.931	0.62	-0.001	0.01	0.012	0.948	0.626	-0.001	0.007	0.009	0.954	
smooth_ls	-0.006	0.029	0.037	0.903	0.586	-0.003	0.014	0.017	0.93	0.62	-0.001	0.01	0.012	0.943	0.626	-0.001	0.007	0.009	0.946	
smooth_xavier	-0.006	0.029	0.037	0.904	0.586	-0.003	0.014	0.017	0.93	0.62	-0.001	0.01	0.012	0.943	0.626	-0.001	0.007	0.009	0.945	
	$\lambda_X=0.9, \alpha_Y=10 - b_2 + d_2=0.2$																			
standard_kernel	-0.001	0.019	0.025	0.902	0.432	-0.0	0.009	0.011	0.929	0.416	-0.0	0.006	0.008	0.931	0.422	-0.0	0.004	0.005	0.939	
standard_xavier	-0.001	0.019	0.025	0.91	0.432	-0.0	0.009	0.011	0.938	0.416	-0.0	0.006	0.008	0.941	0.422	-0.0	0.004	0.005	0.945	
smooth_kernel	-0.004	0.019	0.023	0.907	0.388	-0.001	0.009	0.011	0.94	0.384	-0.001	0.006	0.008	0.944	0.396	-0.0	0.004	0.005	0.953	
smooth_ls	-0.004	0.019	0.023	0.91	0.388	-0.001	0.009	0.011	0.938	0.384	-0.001	0.006	0.008	0.94	0.396	-0.0	0.004	0.005	0.946	
smooth_xavier	-0.004	0.019	0.023	0.907	0.388	-0.001	0.009	0.011	0.938	0.384	-0.001	0.006	0.008	0.94	0.396	-0.0	0.004	0.005	0.946	