Table A1: Performance of Noisy Bayesian Optimization with Different Acquisition Functions on Test Functions

				Ackley (optimal value =0.0)				Bohachevsky (optimal value=0.0)				Booth (optimal value=0.0)				Easom (optimal value =-1.0)				Three Hump Camel (optimal value =0.0)			
				25%	50%	75%	100%	25%	50%	75%	100%	25%	50%	75%	100%	25%	50%	75%	100%	25%	50%	75%	100%
qSR	Constant	RBF	mean	5.26837386	4.55033874	4.24504532	4.23794638	0.07388865	0.07203123	0.07118676	0.071027684	0.00270056	0.00269863	0.00269129	0.00269129	\	\	\	\	0.39465637	0.22835229	0.19831407	0.16429281
			var	4.31995981	4.62800259	4.74572882	4.72642971	0.06227427	0.06269046	0.06287388	0.06294359	0.00230954	0.00230088	0.00230641	0.00230641	\	\	\	\	0.25917843	0.1814818	0.16878313	0.15344598
		Matern(3/2)	mean	7.61776305	7.19800825	6.99306251	6.91559104	0.23658638	1.94775669	1.85648393	1.763975661	0.31391823	0.28179224	0.14167607	0.10938267	\	\	\	\	0.34463317	0.28660712	0.27899417	0.27796217
			var	4.41464513	4.64313884	4.71469436	4.74349699	1.55057098	1.54960676	1.5621338	1.535803657	0.6150475	0.56810794	0.21735845	0.20565004	\	\	\	\	0.23371448	0.22445052	0.20806039	0.20728119
		Matern(5/2)	mean	6.12988077	5.58756491	5.3846497	5.23024046	0.11409084	0.06786771	0.05809968	0.057247572	0.0072558	0.00536528	0.00504897	0.00500909	-0.3810611	-0.4493642	-0.4540077	-0.4557483	0.24979199	0.2554956	0.25157343	0.23879742
			var	4.23729457	4.42516976	4.90423493	4.69366689	0.67917127	0.65541606	0.5858265	0.562732902	0.00509324	0.03864458	0.03567823	0.03021789	0.31388032	0.36312361	0.36226766	0.36026979	0.40229399	0.24301422	0.22617636	0.1909988
	Linear	RBF	mean	4.53653134	4.66425375	4.68602846	4.74830667	0.52663757	0.50739074	0.47174347	0.446711781	0.06868121	0.05684235	0.05319508	0.04207656	\	\	\	\	0.25251805	0.19972384	0.18426204	0.15525908
			var	8.22954031	7.86448164	7.61740267	7.51874116	0.20977096	1.99427627	1.91617804	1.815298158	0.40062771	0.3427614	0.1860522	0.14623584	\	\	\	\	0.364647	0.2551663	0.24535162	0.24226041
		Matern(3/2)	mean	4.80095139	4.93792299	5.12634931	4.99908144	1.52779237	1.53285907	1.591196	1.527203492	0.73351176	0.61502147	0.31911593	0.30742743	\	\	\	\	0.22999223	0.19983176	0.18941752	0.19079521
			var	4.02199802	5.16358817	4.71917438	4.58390094	0.19076978	0.14794168	0.12699676	0.122860386	0.01291444	0.00860045	0.00660499	0.0065478	\	\	\	\	0.37113734	0.26150819	0.21874012	0.20905414
		Matern(5/2)	mean	4.77110811	4.09864117	4.29799815	4.3504827	0.2210902	0.19910657	0.17941123	0.170722809	0.02152427	0.0142357	0.00935287	0.00937687	\	\	\	\	0.22650497	0.21676745	0.19634652	0.18525515
			var	5.54073305	5.04937433	4.85983239	4.2843532	3.44E-05	3.38E-05	3.31E-05	3.29E-05	0.11325363	0.09753397	0.08930984	0.08802056	\	\	\	\	0.34251625	0.21843318	0.22066029	0.22171462
	Quadratic	RBF	mean	3.45048611	3.35599878	3.4608175	3.08941265	3.89E-05	3.88E-05	3.85E-05	3.85E-05	0.11242391	0.09158122	0.0848524	0.08376049	\	\	\	\	0.27331048	0.21843318	0.22066029	0.22171462
			var	7.18677431	6.94078396	6.62427541	6.45474484	3.25E-05	3.17E-05	3.11E-05	3.08E-05	0.3296142	0.26186412	0.20601766	0.17079664	\	\	\	\	0.26049043	0.11231161	0.10930283	0.10669316
		Matern(3/2)	mean	3.23677943	3.33314958	3.64469394	3.75076923	3.62E-05	3.58E-05	3.55E-05	3.55E-05	0.4563743	0.42908469	0.37182149	0.31840123	\	\	\	\	0.19785885	0.15155196	0.15041857	0.15046302
			var	7.13720049	6.59342971	6.19481573	5.77375812	3.42E-05	3.34E-05	3.29E-05	3.26E-05	0.01821512	0.012209	0.01009002	0.00996534	\	\	\	\	0.30740748	0.16377675	0.12903475	0.10605489
		Matern(5/2)	mean	2.92450388	2.91680498	2.77733057	3.13112929	3.89E-05	3.87E-05	3.85E-05	3.85E-05	0.00227419	0.01965029	0.01840506	0.01834404	\	\	\	\	0.22211489	0.20015449	0.14759756	0.14063753
qUCB	Constant	RBF	mean	3.69429923	2.73204959	1.99803053	1.78633566	0.05625901	0.05189356	0.04942978	0.048653296	0.0021678	0.00214411	0.00213988	0.00213988	-0.4041812	-0.4797065	-0.5387429	-0.5913407	0.41346759	0.15911521	0.11064719	0.07663301
			var	3.8646208	2.97927243	1.64996624	1.59797493	0.04876707	0.04521731	0.00419973	0.044028005	0.00185556	0.00186594	0.00186858	0.00186932	0.34916307	0.32427426	0.31711164	0.32804928	0.25279216	0.15419037	0.12556463	0.10406031
		Matern(3/2)	mean	4.8290646	4.03424096	3.59629274	3.38087498	2.00617459	1.7089645	1.16333498	1.092470702	0.25726494	0.06371844	0.04115324	0.02400818	-0.4273047	-0.5001985	-0.5576041	-0.6060872	0.18160733	0.07327746	0.03796591	0.02259397
			var	4.02963118	4.22757569	4.04010858	4.08909353	1.76529292	1.10330309	0.49353457	0.439924829	0.28330042	0.06747375	0.0535763	0.02012166	0.31065486	0.28624532	0.27854788	0.26909758	0.18160733	0.07327746	0.03796591	0.02259397
		Matern(5/2)	mean	3.99678055	2.60404578	2.23954828	2.11755582	0.21527065	0.13811385	0.10730083	0.099882968	0.00836917	0.00533602	0.00513424	0.0050025	0.31068326	0.32406121	-0.4978437	-0.5240845	0.32231804	0.05862621	0.01842321	0.01356631
			var	4.05143293	3.45238781	3.48639222	3.5191206	0.21725476	0.14341335	0.10953429	0.102483438	0.01172101	0.00695137	0.00676378	0.00659046	0.31068326	0.32406121	0.33728462	0.33456339	0.22194465	0.05508884	0.0217861	0.01415446
	Linear	RBF	mean	4.02168532	3.19483331	2.94966981	2.84527918	0.65381982	0.62641385	0.55466588	0.530978563	0.06748525	0.05851269	0.05338818	0.04629756	\	\	\	\	0.41124054	0.15237622	0.13535745	0.11076741
			var	4.47007998	3.93142889	3.98544819	4.01505356	0.54433632	0.52458478	0.48099898	0.454802647	0.23978825	0.15124692	0.14994979	0.13690458	\	\	\	\	0.23978825	0.15124692	0.14994979	0.13690458
		Matern(3/2)	mean	5.88998606	5.04809021	4.74124727	4.29568535	2.07399396	1.76698526	1.1675894	1.11470613	0.32052031	0.07896841	0.04863124	0.02603943	\	\	\	\	0.3048278	0.09823593	0.03372444	0.01697456
			var	4.68844344	4.81987891	4.7759495	4.97158848	1.77435032	1.14589936	0.54509028	0.490341326	0.33614068	0.07896841	0.06182191	0.02179025	\	\	\	\	0.20382845	0.07057911	0.03002188	0.01379191
		Matern(5/2)	mean	3.39828672	2.23173167	1.90550782	1.64858008	0.29378415	0.20844552	0.17573556	0.168021163	0.01149076	0.00980115	0.00712704	0.00697238	\	\	\	\	0.32811637	0.03439094	0.02139075	0.01276882
			var	3.35188935	2.63345488	2.62984531	2.69362094	0.25489963	0.20555166	0.19244843	0.188712597	0.0172445	0.00980115	0.00712704	0.00697238	\	\	\	\	0.21631121	0.0449685	0.02178357	0.01417401
	Quadratic	RBF	mean	5.05819268	4.34775842	3.90049905	3.85203549	3.98E-05	3.85E-05	3.71E-05	3.65E-05	0.11312772	0.09777327	0.08779381	0.08571523	\	\	\	\	0.34205704	0.110433	0.0915434	0.08012546
			var	3.65255077	3.13813098	3.06414463	3.08210438	4.74E-05	4.65E-05	4.48E-05	4.42E-05	0.11365723	0.092999	0.08189121	0.07914422	\	\	\	\	0.23978028	0.16022956	0.16181416	0.15599081
		Matern(3/2)	mean	6.67698369	6.5377914	6.37601483	6.04489179	3.6911E-05	3.6124E-05	3.5142E-05	3.47264E-05	0.15865703	0.04700093	0.02948017	0.01980897	\	\	\	\	0.30449219	0.1368113	0.05745209	0.05311476
			var	3.57817546	3.54777876	3.44519715	3.12114697	4.1791E-05	4.1487E-05	4.0462E-05	4.02295E-05	0.16579796	0.05355718	0.03511203	0.01787402	\	\	\	\	0.22534056	0.15013982	0.11389825	0.1148366
		Matern(5/2)	mean	6.48733781	6.00292052	5.80792234	5.58595228	3.5065E-05	3.4223E-05	3.3205E-05	3.28086E-05	0.02200135	0.01293284	0.0102202	0.01006089	\	\	\	\	0.25624866	0.11274574	0.06553308	0.04380227
			var	3.74069655	3.98586154	4.1625304	4.10205434	4.1525E-05	4.1002E-05	3.9802E-05	3.97786E-05	0.02843643	0.02322993	0.02190479	0.02187199	\	\	\	\	0.20687157	0.18675507	0.15602962	0.11607606
qLogNoisyEI	Constant	RBF	mean	0.84927509	0.28679362	0.14097383	0.0853776	0.07995945	0.07958022	0.06867688	0.062119681	0.00275854	0.00255482	0.0026214	0.00247325	-0.3993134	-0.4542471	-0.5605359	-0.5852545	0.29472422	0.20754542	0.12916408	0.08193246
			var	1.56600043	0.51956782	0.12536034	0.05958778	0.06340359	0.06372357	0.0581801	0.051116388	0.00231058	0.00230083	0.00213034	0.00183986	0.35226209	0.36495561	0.34857758	0.34512282	0.17747867	0.108809	0.10317989	0.05996981
		Matern(3/2)	mean	1.28501895	0.65820526	0.61424463	0.58259413	24.1629376	16.5722116	7.79995376	5.050894713	1.10963382	0.92408051	0.7605355	0.488116864	-0.4273047	-0.5056548	-0.5873395	-0.6406611	0.31453724	0.17906183	0.14262288	0.08209317
			var	3.69435431	3.16683174	3.10684349	3.04365583	21.4256035	13.8162152	6.79904541	3.712849259	0.84286703	0.73677033	0.55732406	0.37095032	0.36986676	0.36164974	0.32955728	0.29858965	0.19273813	0.10569795	0.0888635	0.06796748
		Matern(5/2)	mean	1.06336834	0.75199129	0.65562753	0.62455525	0.34897114	0.30225515	0.19066434	0.176984143	0.02332856	0.01551528	0.01527505	0.01527505	0.35176569	0.33905721	-0.5889437	-0.635638	0.15950724	0.14262288	0.0888635	0.06796748
			var	3.33216364	3.22139618	3.09626783	3.10193609	0.37872386	0.32698237	0.23969579	0.23294371	0.00337692	0.01170202	0.0115718	0.0115718	0.35176569	0.33905721	0.33412969	0.3217138	0.22292184	0.10851426	0.08635539	0.05076707
	Linear	RBF	mean	1.22930215	0.79920136	0.14734085	0.04038265	0.02021176	0.48470517	0.38348385	0.316962632	0.05356897	0.06400322	0.02261457	0.01755562	\	\	\	\	0.39587773	0.26101149	0.13050376	0.0684184
			var	3.07735814	3.09392236	3.10440438	3.11139153	0.47100609	0.40323082	0.32367439	0.227255828	0.09144976	0.06449225	0.03191264	0.02242293	\	\	\	\	0.26737144	0.19089044	0.18558583	0.13642218
		Matern(3/2)	mean	1.23376879	0.71363884	0.67392535	0.65707266	24.4516897	16.7991741	7.80520772	5.210487666	1.14933988	0.90547143	0.7800889	0.58463162	\	\	\	\	0.29244964	0.22407303	0.15413086	0.09512077
			var	3.72910703	3.45806995	3.46537863	3.46852947	21.5988365	13.9396232	6.30200961	3.663789873	0.81210817	0.76335507	0.53565354	0.39246072	\	\	\	\	0.18907572	0.1289844	0.10660933	0.07449734
		Matern(5/2)	mean	1.05695241	0.75826558	0.71271859	0.67857103	0.43310479	0.42201486	0.37459884	0.362758584	0.06575344	0.02362646	0.02157225	0.01893816	\	\	\	\	0.340082	0.1677617	0.12516328	0.08403459
			var	3.34027684	3.36975554	3.37785668	3.38380506	0.42682478	0.40107301	0.37459884	0.374300026	0.06575344	0.02362646	0.0231347	0.0172653	\	\	\	\	0.22292184	0.1081426	0.08635539	0.05076707
	Quadratic	RBF	mean	\	\	\	\	3.57E-05	3.55E-05	3.52E-05	3.49E-05	0.0404457	0.02272238	0.01606328	0.01162275	-0.350928	-0.3586835	-0.3636088	-0.3843916	0.20335909	0.15985238	0.1583221	0.15478565
			var	\	\	\	\	3.91E-05	3.92E-05	3.93E-05	3.94E-05	0.03450282	0.01635437	0.01082781	0.00843307	0.3161216	0.32902024	0.33103932	0.33861818	0.20901667	0.14536592	0.1233017	0.11539688
		Matern(3/2)	mean	1.81563409	0.55037298	0.46559929	0.34826265	2.56E-05	2.17E-05	2.09E-05	2.08E-05	0.68974994	0.49402249	0.46139855	0.35484053	\	\	\	\	0.27164447	0.17515799	0.13432974	0.09419599
			var	2.25633852	1.46443537	1.42337446	1.01011038	2.87E-05	2.55E-05	2.55E-05	2.55E-05	0.56109771	0.37134653	0.32653775	0.26415858	\	\	\	\	0.20901667	0.14536592	0.1233017	0.11539688
		Matern(5/2)	mean	2.22874985	0.74358758	0.44453353	0.41032177	3.29E-05	3.27E-05	3.25E-05	3.23E-05	0.08371519	0.01293284	0.03256631	0.03256631	\	\	\	\	0.26732268	0.18005838	0.11592282	0.06697508
			var	3.07266558	1.78156723	1.52756236	1.52092046	3.57E-05	3.58E-05	3.58E-05	3.59E-05	0.09968198	0.0296591	0.0256047	0.0256047	\	\	\	\	0.22817658	0.16212449	0.15392458	0.1146766
qPredictiveEntropySearch	Constant	RBF	mean	\	\	\	\	581.944009	472.796583	285.003803	121.1270216	0.82682157	0.28122916	0.16407982	0.1379513	\	\	\	\	\	\	\	\
			var	\	\	\	\	510.679063	524.330591	491.19176	221.1745379	1.0190278	0.32423642	0.18106797	0.13325864	\	\	\	\	\	\	\	\
		Matern(3/2)	mean	\	\	\	\	581.944009	581.944009	506.79866	454.8607976	16.0051293	12.6922419	7.29463653	4.80789151	\	\	\	\	\	\	\	\
			var	\	\	\	\	510.679063	510.679063	410.5704334	374.1165836	11.3899029	8.04735055	4.97998083	2.95991294	\	\	\	\	\	\	\	\
		Matern(5/2)	mean	\	\	\	\	581.944009	581.944009	547.962473	396.5604131	1.46643315	0.85400555	0.43116286	0.30414639	\	\	\	\	\	\	\	\
			var	\	\	\	\	510.679063	510.679063	524.275891	399.2710449	1.84218722	0.78419553	0.39145266	0.23645934	\	\	\	\	\	\	\	\
	Linear	RBF	mean	\	\	\	\					0.29952184	0.15721926	0.10409227	0.05775134	\	\	\	\	\	\	\	\
			var	\	\	\	\					0.49809071	0.26740868	0.16304757	0.06135956	\	\	\	\	\	\	\	\
		Matern(3/2)	mean	\	\	\	\	581.944009	581.944009	506.792968	455.277953	16.0051293	13.2413285	7.78261574	5.09047281	\	\	\	\	\	\	\	\
			var	\	\	\	\	510.679063	510.679063	410.577554	374.4944243	11.3899029	8.38791914	5.70070736	3.92318236	\	\	\	\	\	\	\	\
		Matern(5/2)	mean	\	\	\	\					1.75790318	0.93400668	0.41912997	0.25617452	\	\	\	\	\	\	\	\
			var	\	\	\	\					1.69771329	0.85411522	0.4546005	0.24050739	\	\	\	\	\	\	\	\
	Quadratic	RBF	mean	\	\	\	\	0.05929026	0.00123403	0.00110135	0.000779266	0.12101713	0.09545368	0.08316857	0.07316169	\	\	\	\	\	\	\	\
			var	\	\	\	\	0.23662938	0.00376141	0.00353656	0.003250033	0.13044144	0.11256632	0.10210147	0.09294423	\	\	\	\	\	\	\	\
		Matern(3/2)	mean	\	\	\	\	0.62968145	0.62967449	0.62966506	0.629662987	15.9830472	9.84214375	4.58541295	3.32167643	\	\	\	\	\	\	\	\
			var	\	\	\	\	3.44872197	3.44872328	3.44872506	3.448725457	11.3793603	7.3554857	3.14003673	1.93915358	\	\	\	\	\	\	\	\
		Matern(5/2)	mean	\	\	\	\	35.278364	3.3850415	3.1759599	3.274422139	3.2484122	0.69616424	0.17834035	0.08896009	\	\	\	\	\	\	\	\
			var	\	\	\	\	191.714954	17.2857328	17.2867989	17.2902473	4.91021417	0.67991081	0.22841947	0.11414113	\	\	\	\	\	\	\	\
qMaxValueEntropy	Constant	RBF	mean	3.34601654	2.1514158	1.71837793	1.49269113	199.61494	80.55196	18.1928209	15.94480682	0.04734045	0.00768502	0.00487387	0.00388867	-0.39994554	-0.5088482	-0.5560263	-0.6170922	0.52848171	0.39553819	0.2159553	0.10813695
			var	2.30274152	1.07055437	0.91637114	0.87748173	339.771453	183.637636	36.8028609	35.74334537	0.19504396	0.02825516	0.00627677	0.00595118	0.3476966	0.35245261	0.33784225	0.31167151	0.365072	0.27175705	0.22039189	0.17242888
		Matern(3/2)	mean	1.75643819	0.96045644	0.9029612	0.86655003	128.839068	88.4930868	24.5890616	15.43579941	4.197713	2.62435733	1.57100793	1.43244151	-0.4944333	-0.5567771	-0.6268161	-0.6490087	0.49290758	0.40223478	0.34078058	0.29937342
			var	1.1539312	0.63105782	0.64063858	0.60813168	184.00495	173.837537	24.8845731	15.54840242	4.46332895	1.89534735	1.19189978	1.07023941	0.38272291	0.36794433	0.355925	0.35037112	0.31319847	0.26729448	0.21708217	0.20201266
		Matern(5/2)	mean	2.35435959	1.65106056	1.43453185	1.3001702	102.119496	44.7906734	1.15950724	1.045469169	0.04172581	0.00533042	0.00540594	0.00480211	0.35032306	0.35579563	0.35369629	0.35379393	0.32866589	0.23286026	0.1925885	0.16372117
			var	1.17167718	1.02071847	0.87112393	0.65868436	269.442033	179.604875	0.98746366	0.801376045	0.10133551	0.09866463	0.08002761	0.07737737	0.35328226	0.35579563	0.35369629	0.35379393	0.32866589	0.23286026	0.1925885	0.16372117
	Linear	RBF	mean	3.93070592	2.86729045	2.67955856	2.49852003	129.383668	68.226293	51.3129731	37.6430652	0.02824351	0.03464288	0.03316116	0.02550869	\	\	\	\	0.47644465	0.30751682	0.22017638	0.11230606
			var	3.6530788	2.79346287	2.81700412	2.87372166	242.797873	121.180937	115.349472	114.0226263	0.06688748	0.0549447	0.05217647	0.03551687	\	\	\	\	0.3239118	0.28351176	0.21777029	0.19203124
		Matern(3/2)	mean	2.42567729	1.17553856	0.8305675	0.7325787	143.031784	68.128831	22.1613858	14.81520023	5.81509144	2.58205771	1.73427317	1.36507694	\	\	\	\	0.47828993	0.35454037	0.304786	0.26029106
			var	1.41488391	0.89282685	0.62676319	0.55299447	264.700324	100.784313	25.9403391	17.35262182	6.94582943	1.63510812	1.06070751	0.96319493	\	\	\	\	0.52079449	0.32862275	0.25884372	0.21811752
		Matern(5/2)	mean	2.40939528	1.424841	1.10210973	1.10583471	111.904402	21.5559437	20.9126109	20.78357282	0.08887761	0.04300767	0.03690127	0.03570247	\	\	\	\	0.44247253	0.32886672	0.18333947	0.15253367
			var	1.35439799	0.87303751	0.89726668	0.77788893	272.550936	107.143914	107.24891	107.2729295	0.11140789	0.03643554	0.03735009	0.03556197	\	\	\	\	0.44247253	0.32886672	0.18333947	0.15253367
	Quadratic	RBF	mean	4.44068914	3.28491867	2.83789989	2.3384346	429.276886	388.357287	346.775902	317.767046	0.16656597	0.13663608	0.10323489	0.09183373	\	\	\	\	0.23222086	0.17678475	0.06960524	0.05275861
			var	2.78324144	1.88675308	1.74229522	1.84076519	383.321658	383.370556	362.517407	334.4028407	0.19121543	0.16162951	0.11734965	0.10490747	\	\	\	\	0.21310321	0.17486632	0.06944816	0.04765317
		Matern(3/2)	mean	3.74373482	1.83591495	1.35484774	1.25647744	420.56402	410.71066	355.766119	339.3056841	2.53616061	1.72588706	1.11479359	0.84882974	\	\	\	\	0.28522327	0.13691656	0.16679015	0.14018462
			var	2.44678359	1.74101517	1.05860679	0.9268877	499.252196	358.492219	295.030665	299.6881718	2.86973223	2.14737578	0.84985416	0.71318599	\	\	\	\	0.27507353	0.24692085	0.19576866	0.14452774
		Matern(5/2)	mean	3.10997587	1.51483623	1.24279849	1.08927189	455.293269	417.871077	370.772809	350.7325993	2.53616061	1.25643795	0.66455226	0.05988448	\	\	\	\	0.22970491	0.22692085	0.16647389	0.13161529
			var	1.83894973	1.05124078	0.86239118	0.77890718	419.572212	431.408464	383.385002	383.4143015	0.25288357	0.14917162	0.10435981	0.1039447	\	\	\	\	0.25683665	0.23523264	0.16187271	0.14094904
qLowerBoundMaxValueEntropy	Constant	RBF	mean	2.54759829	2.07443938	1.78572934	1.48724588	14.7570402	2.67954996	2.33481772	0.240692275	0.00853075	0.00765904	0.00442361	0.00385063	-0.42777558	-0.5084264	-0.5437668	-0.6083474	0.47487617	0.3476843	0.14779217	0.06570019
			var	1.15784636	1.05818494	1.0307921	0.82195953	37.7308712	12.6804546	0.25022597	0.242413497	0.01248048	0.0061584	0.00538409	0.00535525	0.36615111	0.36459492	0.37403904	0.35505081	0.29236153	0.25282121	0.18036662	0.12912078
		Matern(3/2)	mean	0.73764007	0.54616978	0.47377003	0.46333766	66.6199035	35.0262911	1.35290366	8.101465594	3.48328265	2.27439997	1.58855498	1.22919213	-0.4544345	-0.5271138	-0.6087697	-0.6631829	0.22401245	0.24012458	0.21669524	0.15209441
			var	0.4647828	0.37891758	0.30474928	0.30457199	54.4578575	33.9707136	12.7002187	7.431274484	2.65491049	1.52245621	1.17695804	0.91990877	0.37882531	0.38154257	0.33914616	0.31323287	0.22768156	0.14719777	0.12775504	0.10828885
		Matern(5/2)	mean	1.38357816	0.78355281	0.73531132	0.68409874	94.5355396	44.6990132	22.6442376	22.66225982	0.09337883	0.0189753	0.0919042	0.09231142	-0.4339601	-0.483225	-0.5178005	-0.6116317	0.25741333	0.12886176	0.10069965	0.07738392
			var	0.16275512	0.60101721	0.56688426	0.56598449	94.5355396	44.69901	32.26422376	26.66225982	0.09337883	0.02019753	0.0919042	0.09231142	0.37692544	0.34551275	0.34553568	0.33210943	0.25741333	0.12886176	0.10069965	0.07738392
	Linear	RBF	mean	3.08402095	2.2464669	1.80452594	1.59266768	28.8580906	9.13243152	3.26078335	0.634950406	0.03808441	0.00765904	0.03316116	0.02877259	\	\	\	\	0.45983349	0.30751682	0.17487021	0.09027762
			var	3.58225011	2.79753313	2.23247872	2.06133205	54.8521037	31.1542907	13.3052465	55.54964766	1.43409137	0.05036864	0.04776703	0.04315127	\	\	\	\	0.27358124	0.23414393	0.18669159	0.14976686
		Matern(3/2)	mean	0.80924694	0.67841973	0.49668443	0.47727733	66.1841542	41.1233182	17.5009099	8.178805302	3.47126815	2.36075771	1.68148198	1.2777606	\	\	\	\	0.36883022	0.24180288	0.19006942	0.164484
			var	0.63245985	0.59735173	0.39923632	0.38353248	54.4207282	39.9041807	14.1833661	7.336110654	2.45254351	1.54662066	1.10076164	0.88388386	\	\	\	\	0.24407722	0.14584203	0.11780119	0.11705723
		Matern(5/2)	mean	0.33416075	0.99144014	0.90716317	0.70806621	10.2906613	9.9493386	4.16496502	0.796048532	0.01440757	0.01681991	0.00660387	0.0360387	\	\	\	\	0.35771569	0.20984103	0.17740931	0.12525304
			var	0.85332477	0.74463634	0.68269965	0.54238545	32.5036	32.589439	17.1570948	52.54186746	0.07880418	0.04255072	0.03694547	0.0371407	\	\	\	\	0.22739668	0.1268138	0.10563076	0.08240066
	Quadratic	RBF	mean	3.15175762	2.54535635	1.94613328	1.76310091	348.936651	343.252747	293.836601	263.8364706	0.14417614	0.13663608	0.07656847	0.06419549	\	\	\	\	0.31190731	0.11468335	0.06495907	0.05371451
			var	2.5359174	2.01376911	1.62843592	1.46116138	421.680047	425.730241	405.977801	405.9779581	0.15951263	0.10719123	0.09905571	0.07879144	\	\	\	\	0.20957648	0.15613687	0.11694492	0.11472787
		Matern(3/2)	mean	1.73814727	1.54646319	1.00730422	0.86693487	426.207203	421.918384	371.533781	371.5337813	0.22850941	0.14564379	0.19248329	0.71540616	\	\	\	\	0.27744841	0.17515799	0.13745926	0.10778824
			var	2.79119605	2.79533145	2.72038047	2.403613	403.145834	407.077437	393.333916	393.3339158	1.34243706	1.18464811	0.84730733	0.5116864	\	\	\	\	0.23060514	0.14791131	0.13098282	0.12289839
		Matern(5/2)	mean	2.58198277	2.17097677	1.61588964	1.37464614	367.173884	359.560201	295.7538334	295.7536192	0.27609451	0.16667332	0.07309954	0.04889951	\	\	\	\	0.30016034	0.18781513	0.14944116	0.11635798
			var	3.44114521	3.13688333	2.56162286	1.52446603	400.310061	406.470999	384.187292	384.187463	0.19634693	0.11977342	0.09826096	0.05700444	\	\	\	\	0.26434451	0.15828107	0.15319196	0.15167103
qKG	Constant	RBF	mean	\	\	\	\	570.342669	493.943861	484.594243	454.6337547	15.3453972	15.3453972	14.8854958	14.6713336	\	\	\	\	\	\	\	\
			var	\	\	\	\	499.127545	367.632147	359.320299	355.4578406	10.1723661	10.1723661	10.2397353	9.94094167	\	\	\	\	\	\	\	\
		Matern(3/2)	mean	\	\	\	\	155.068848	115.41622	45.4520146	35.41746604	0.00409207	1.6007643	0.94585788	0.54511734	\	\	\	\	\	\	\	\
			var	\	\	\	\	87.8565353	58.4557462	15.5428317	9.502380555	1.0558765	1.01685364	0.655603	0.29193861	\	\	\	\	\	\	\	\
		Matern(5/2)	mean	\	\	\	\	423.673149	391.16689	312.941303	279.9945902	6.9158471	5.53345729	4.63050782	4.24155424	\	\	\	\	\	\	\	\
			var	\	\	\	\	285.733599	251.149129	195.030532	177.3886655	2.86885104	1.98864186	1.56646751	1.43831132	\	\	\	\	\	\	\	\
	Linear	RBF	mean	\	\	\	\	581.944009	559.530283	423.654849	300.7011273	15.335327	14.3583446	14.2331141	13.4562272	\	\	\	\	\	\	\	\
			var	\	\	\	\	510.679063	520.062062	379.468635	365.7648998	10.5781865	8.98484896	9.07035073	8.37559826	\	\	\	\	\	\	\	\
		Matern(3/2)	mean	\	\	\	\	157.605512	118.084949	50.2399032	38.26577094	2.96694842	1.96553503	1.45505621	0.97467908	\	\	\	\	\	\	\	\
			var	\	\	\	\	91.9865061	57.4359526	16.8762284	11.91988807	1.04853646	1.04232602	0.44434939	0.21977997	\	\	\	\	\	\	\	\
		Matern(5/2)	mean	\	\	\	\	448.817917	418.66574	318.949816	281.184841	6.69940777	5.16158742	4.49209683	4.1718304	\	\	\	\	\	\	\	\
			var	\	\	\	\	306.470673	295.163767	256.753501	212.2646568	2.74404659	1.8659993	1.54938138	1.48103026	\	\	\	\	\	\	\	\
	Quadratic	RBF	mean	\	\	\	\	502.320016	435.375183	406.047792	379.1316071	13.2060461	11.9188655			\	\	\	\	\	\	\	\
			var	\	\	\	\	488.429256	358.271688	345.599744	321.7807044	10.0460311	10.0460311	8.34022646	7.16190801	\	\	\	\	\	\	\	\
		Matern(3/2)	mean	\	\	\	\	495.958505	489.459918	388.592036	361.6759321	1.68193336	1.38557473	0.76699607	0.52698853	\	\	\	\	\	\	\	\
			var	\	\	\	\	483.601999	352.048434	329.081995	302.3681757	0.88023148	0.71852755	0.35448289	0.34540297	\	\	\	\	\	\	\	\
		Matern(5/2)	mean	\	\	\	\	495.958505	489.459918	388.592036	361.6759321	6.38288052	4.74231273	3.90977203	3.79891629	\	\	\	\	\	\	\	\
			var	\	\	\	\	483.601999	351.625192	353.658919	328.4050538	2.62209136	1.76089043	1.77735339	1.34871473	\	\	\	\	\	\	\	\
ThompsonSampling	Constant	RBF	mean	2.80233124	2.6811761	1.27659025	0.76135671	1.7357755	1.39389642	1.37896043	1.20783026	0.020973	0.01283026	0.00983007	0.00093005	-0.53563122	-0.673681	-0.7658684	-0.8045193	0.45453139	0.28572431	0.11431438	0.06264467
			var	4.28535914	3.47117325	3.38274118	2.03379128	0.18393808	0.79288313	0.3894503	0.347704411	0.03901251	0.02042393	0.01235768	0.00793064	0.3294035	0.31349822	0.27536225	0.25593857	0.29237469	0.1743373	0.1145051	0.08830169
		Matern(3/2)	mean	1.54801804	0.60784558	0.73845396	0.30314115	16.6233692	35.93488903	18.160862	12.35975344	3.00587012	1.84730287	1.27567839	0.90079422	-0.50162692	-0.03126613	-0.7555079	-0.77527214	0.36224633	0.17917744	0.19555847	0.16068309
			var	0.77626225	0.40325319	0.28782829	0.14883172	94.6891191	24.24277745	18.28704472	10.14030684	2.2980354	1.60582967	1.27367839	0.72909236	0.32080898	0.37432209	0.39988009	0.29634379	0.24223473	0.14246607	0.10841712	0.09420951
		Matern(5/2)	mean	1.31977561	0.47003132	0.33006465	0.33300465	3.11906036	1.92952797	1.42011858	1.251823766	0.0947387	0.00946338	0.07247098	0.05673887	-0.37843	-0.58754	-0.6684413	-0.7283513	0.25692594	0.16338936	0.12405807	0.07103196
			var	0.89785603	0.52572054	0.21881261	0.16812124	2.3797292	0.9409679	0.64891603	0.570501112	0.44719552	0.0484207	0.06319826	0.04897387	-0.35733594	-0.5307054	-0.587054	-0.6684413	0.25692594	0.16338936	0.12405807	0.07103196
	Linear	RBF	mean	2.46425407	1.34923734	0.94257023	0.87651282	1.8264454	1.42725342	0.970368673	0.970368673	0.47799569	0.0484207	0.02248061	0.0189162	-0.44665745	-0.46723448	-0.5508942	-0.6060942	0.4483571	0.21027462	0.14585391	0.06853643
			var	0.42267202	3.11636116	3.07423331	3.08580698	1.07853206	0.75734306	0.38572642	0.34515963	0.09772609	0.03075872	0.03082072	0.02509379	-0.32481992	-0.35353647	-0.36094037	-0.36362339	0.32125423	0.18022463	0.14943417	0.12124534
		Matern(3/2)	mean	2.19507009	0.64203848	0.97032814	0.98506988	95.7071465	26.9037592	18.2870472	10.14030684	0.23366087	1.63560652	1.29116726	0.85042547	-0.34301169	-0.35421334	-0.33878443	-0.33810852	0.22497868	0.19235559	0.12323629	0.12203334
			var	2.38470743	0.41775598	0.2995037	0.15469494	95.7071465	26.9037592	18.2870472	10.14030684	0.23366087	1.63560652	1.29116726	0.85042547	-0.34301169	-0.35421334	-0.33878443	-0.33810852	0.22497868	0.19235559	0.12323629	0.12203334
		Matern(5/2)	mean	1.53145342	0.54515046	0.30014046	0.29042441	3.92549082	2.40301113	1.5658224	1.361833485	0.32312366	0.2888742	0.06544664	0.04353942	-0.3508684	-0.35416003	-0.6392953	-0.56194469	0.25316175	0.19317515	0.12261109	0.08119699
			var	1.38322126	0.34308368	0.20031479	0.13434932	3.30052533	1.34014757	0.84044836	0.751451207	0.32312366	0.2888742	0.06544664	0.04353942	-0.3508684	-0.35351668	-0.36944609	-0.37886748	0.25316175	0.19317515	0.12261109	0.08119699
	Quadratic	RBF	mean	2.78432713	1.90515871	1.44920388	1.5757989	0.97401788	0.72664088	0.38902258	0.58133389	0.11169007	0.0910139	0.03527939	0.02435224	-0.35851769	-0.36958053	-0.37822466	-0.38777433	0.26181119	0.14049107	0.1290086	0.1191715
			var	2.69023542	1.49540163	0.72053486	0.72461448	0.98101923	1.37331489	0.169581	0.897060992	0.37074018	0.03394307	0.04235224	0.02435224	-0.42244533	-0.5222493	-0.6446448	-0.6999583	0.30906335	0.18158959	0.12495697	0.12747507
		Matern(3/2)	mean	2.13893623	1.87182412	1.59271442	1.12458512	0.97401788	0.72664088	0.38928685	0.357066708	0.20611231	1.50669674	1.13287577	0.6564047	-0.32662231	-0.34492299	-0.34342369	-0.34389793	0.23058959	0.12495697	0.12147262	0.07927828
			var	2.64829539	1.8930965	1.28187855	1.18488328	0.97401788	0.72664088	0.38928685	0.357066708	0.64530075	0.15024212	0.07569095	0.06441274	-0.32594206	-0.33811938	-0.6103221	-0.6576805	0.27050192	0.1574133	0.09709676	0.07795034

The table shows the mean and standard deviation (over 30 replications) of the best observed value at 25%, 50%, 75%, and 100% of the optimization budget (additional evaluations after initial sampling). Results are reported for 5 test functions with 8 acquisition functions, each combined with 3 mean and 3 covariance functions (9 variants per acquisition).