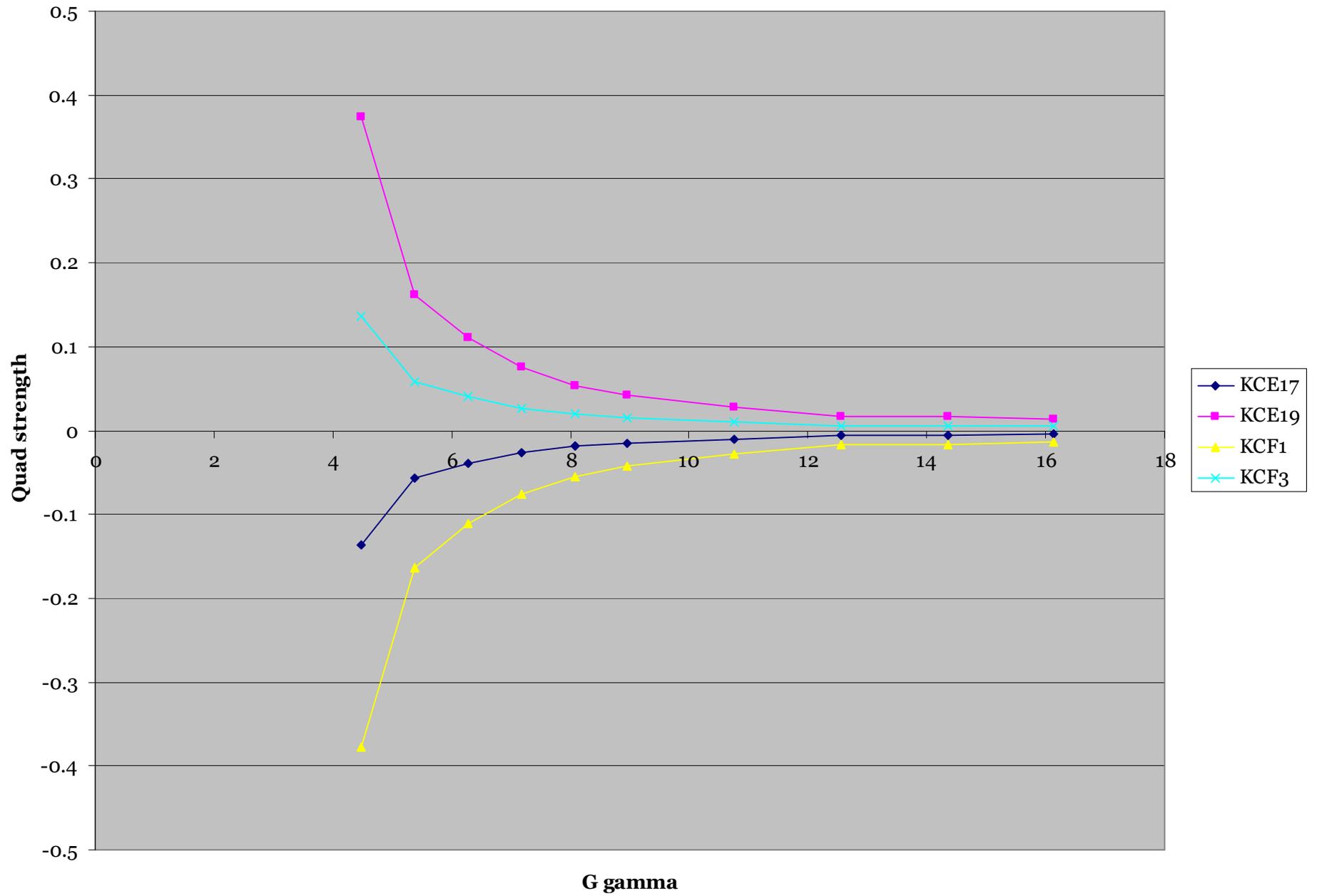
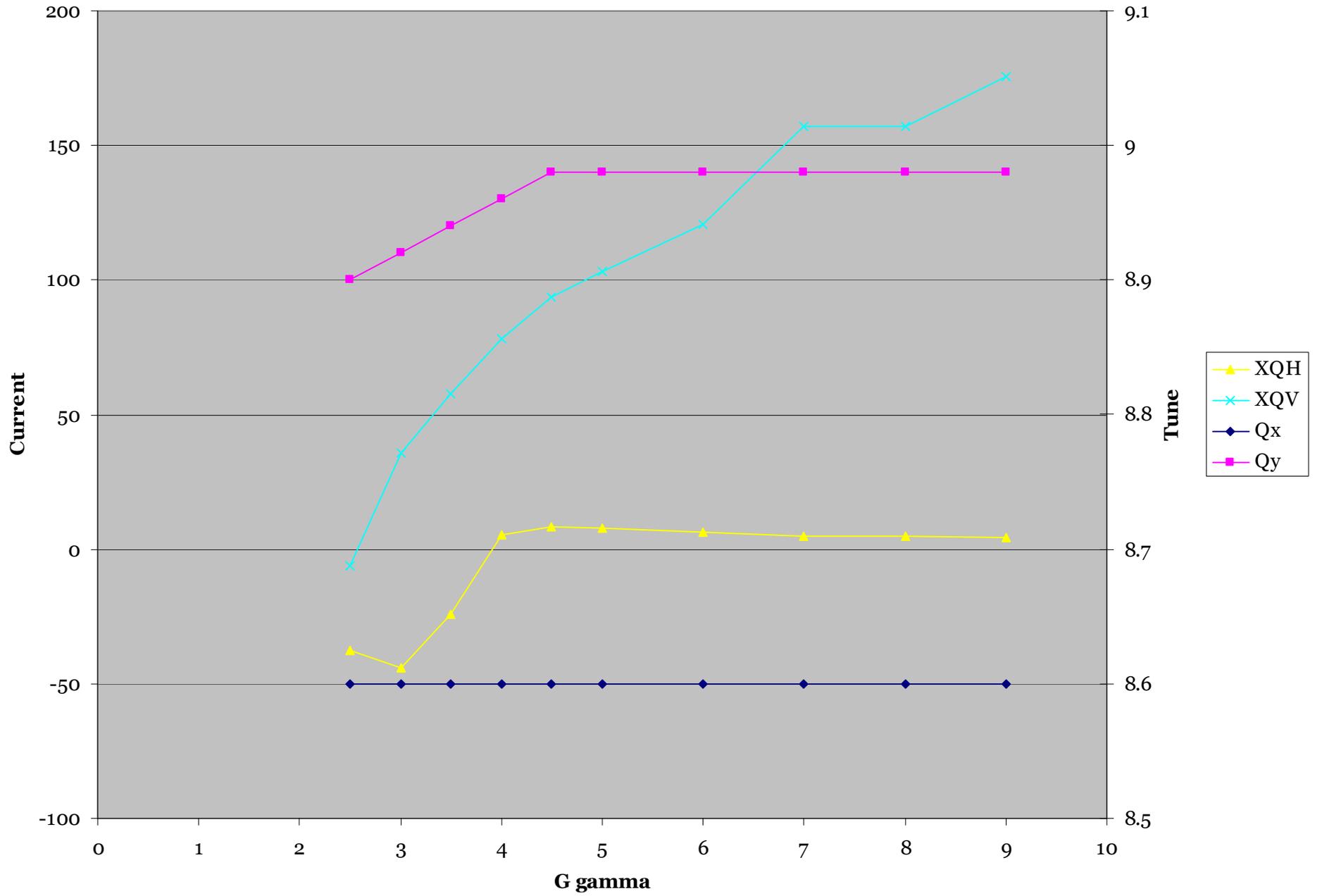


Compensating quads for AGS snakes; snake  
matrices from Luccio's web site  
[www.agsrhichome.bnl.gov/People/luccio/Spin/](http://www.agsrhichome.bnl.gov/People/luccio/Spin/)

### Compensation quads - warm

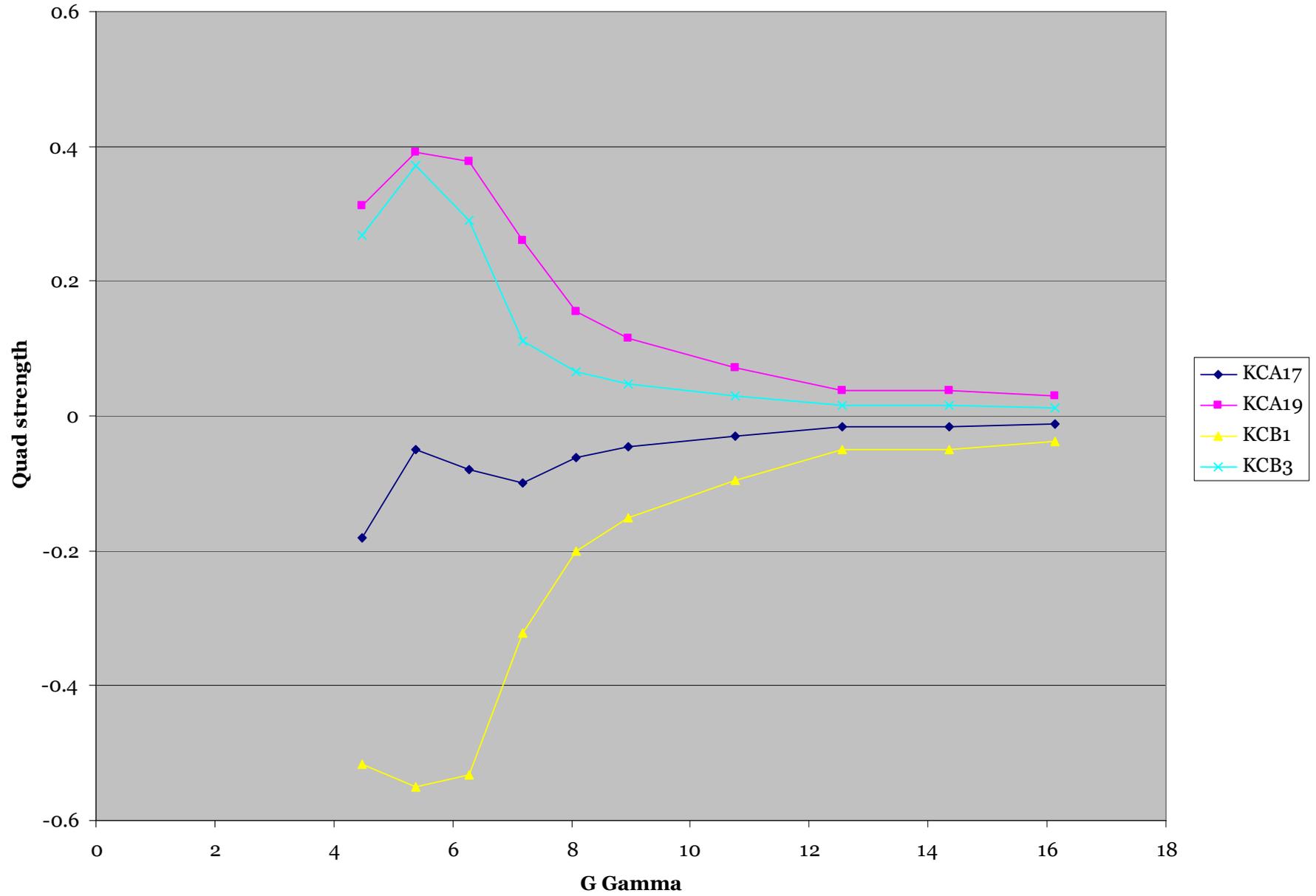


# Tune quads



Gamma	2.5	3	3.5	4	4.5	5	6	7.00E+00	8.00E+00	9	10
Qx	8.6	8.6	8.6	8.6	8.6	8.6	8.6	8.6	8.6	8.6	8.6
Qy	8.9	8.92	8.94	8.96	8.98	8.98	8.98	8.98	8.98	8.98	8.98
XQH	-37.40277	-43.94012	-24.27324	5.3342012	8.3947035	7.6790087	6.2282504	4.7392259	4.7392259	4.1079961	3.2845247
XQV	-6.153405	35.73316	57.840614	78.372727	93.866518	102.93828	120.51448	157.25775	157.25775	175.71755	194.1295
G gamma	4.4825	5.379	6.2755	7.172	8.0685	8.965	10.758	12.551	14.344	16.137	17.93
	-0.022276	-0.021284	-0.009729	0.0023099	0.0030199	0.0024991	0.0017247	0.0010217	0.0010217	0.0008075	0.0006095
	0.0031413	-0.01829	-0.024716	-0.028888	-0.030491	-0.029925	-0.028983	-0.028159	-0.028159	-0.027914	-0.027717
G gamma	4.4825	5.379	6.2755	7.172	8.0685	8.965	10.758	12.551	14.344	16.137	17.93
KCA17	-0.180551	-0.050528	-0.080312	-0.099068	-0.061933	-0.046337	-0.029457	-0.015427	-0.015427	-0.011975	-0.009579
KCA19	0.3120382	0.3908794	0.377937	0.2605338	0.1542739	0.1146315	0.0716217	0.037196	0.037196	0.0288875	0.0231534
KCB1	-0.516773	-0.54995	-0.532866	-0.322449	-0.201111	-0.150286	-0.095125	-0.049567	-0.049567	-0.038427	-0.030708
KCB3	0.2676515	0.3709677	0.2906987	0.1104402	0.0646503	0.0476234	0.0295543	0.0152101	0.0152101	0.0117678	0.0093967
G gamma	4.4825	5.379	6.2755	7.172	8.0685	8.965	10.758	12.551	14.344	16.137	17.93
KCE17	-0.136002	-0.056911	-0.038415	-0.02625	-0.019092	-0.014783	-0.009918	-0.005667	-0.005667	-0.004734	-0.003929
KCE19	0.3745471	0.1625248	0.1112671	0.0754482	0.0534361	0.0420314	0.0287065	0.0166212	0.0166212	0.0140714	0.0119186
KCF1	-0.376429	-0.162786	-0.110186	-0.075249	-0.055259	-0.042807	-0.028562	-0.016252	-0.016252	-0.013402	-0.011305
KCF3	0.1369666	0.0587859	0.039976	0.0271058	0.0194008	0.0152212	0.0103401	0.0059249	0.0059249	0.0048971	0.0042568

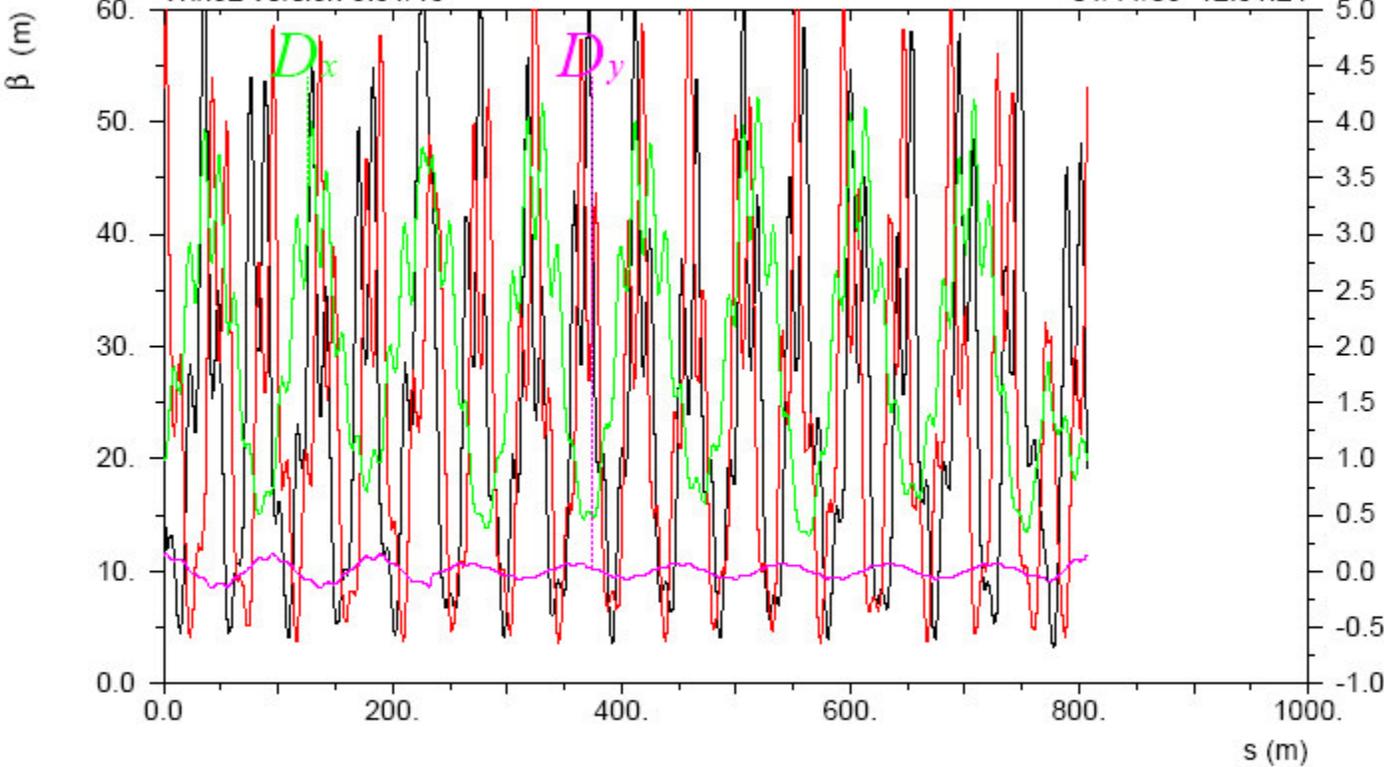
### Comp Quads - cold





Cold snake at A20, warm at E20, ring B11 to B10  
AGS with two snakes, Gamma = 2.5, tunes 8.6,8.9  
Win32 version 8.51/15

01/11/05 12.31.24



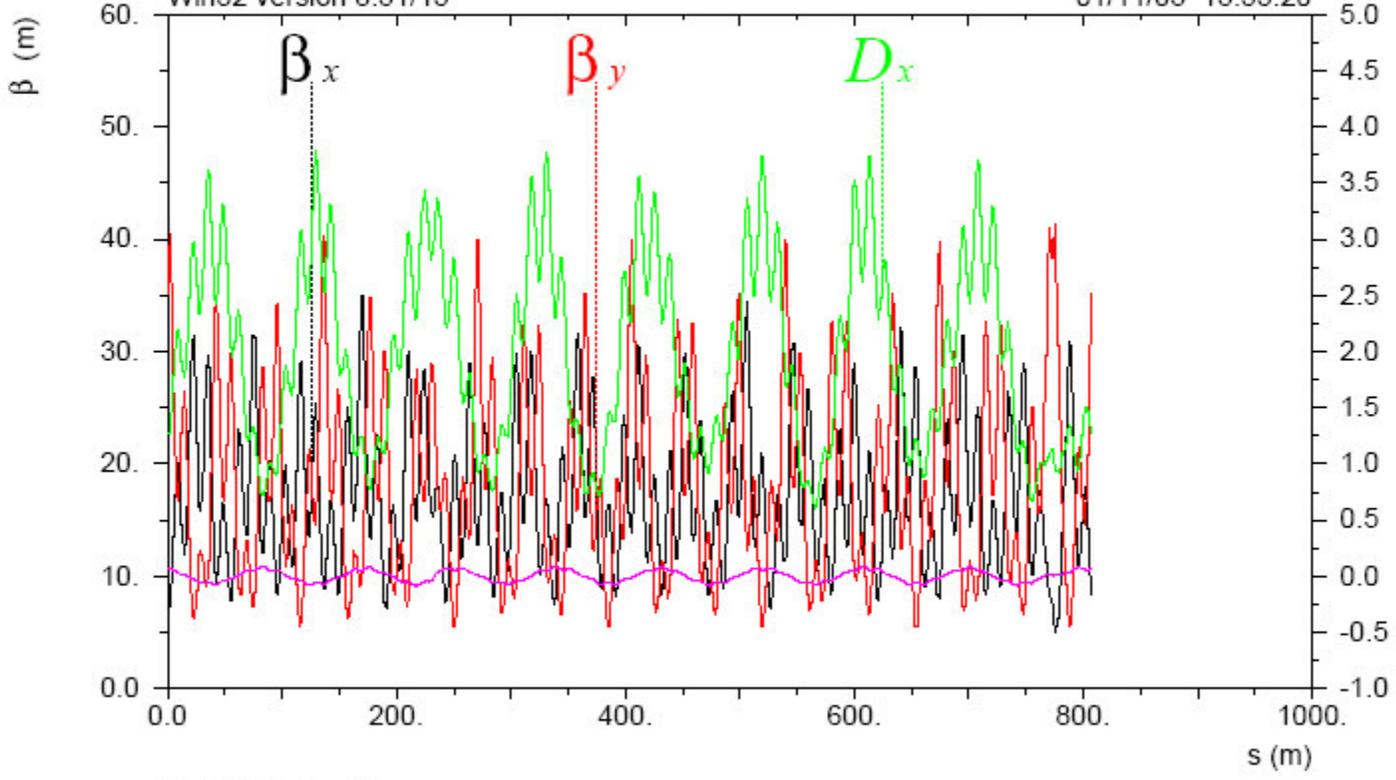
$$\delta_{\epsilon} / p_{\circ} c = 0.$$

Table name = FINAL



Cold snake at A20, warm at E20, ring B11 to B10  
AGS with two snakes, Gamma = 3.0, tunes 8.6, 8.92  
Win32 version 8.51/15

01/11/05 15.53.20

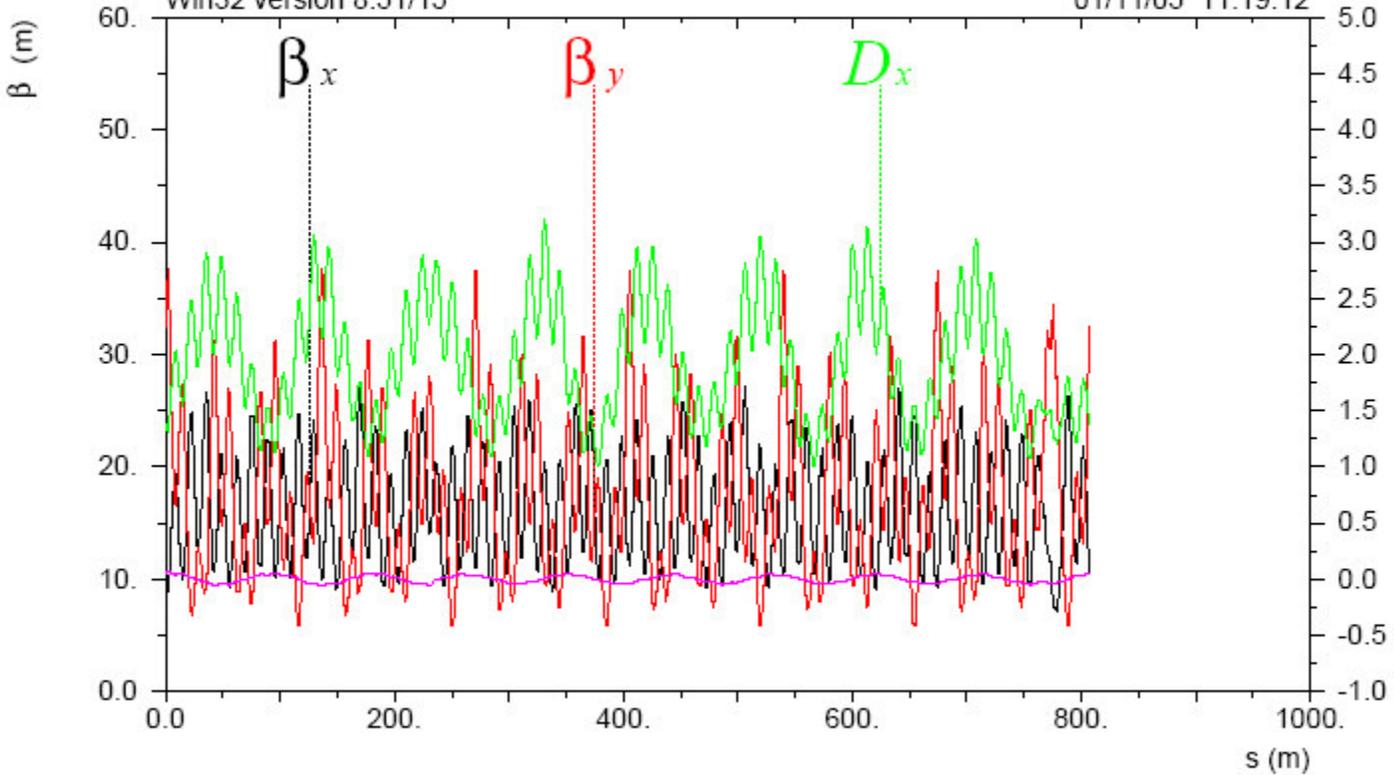


$\delta_{\epsilon} / p_0 c = 0.$   
Table name = FINAL



Cold snake at A20, warm at E20, ring B11 to B10  
AGS with two snakes, Gamma = 3.5, tunes 8.6, 8.94  
Win32 version 8.51/15

01/11/05 11.19.12



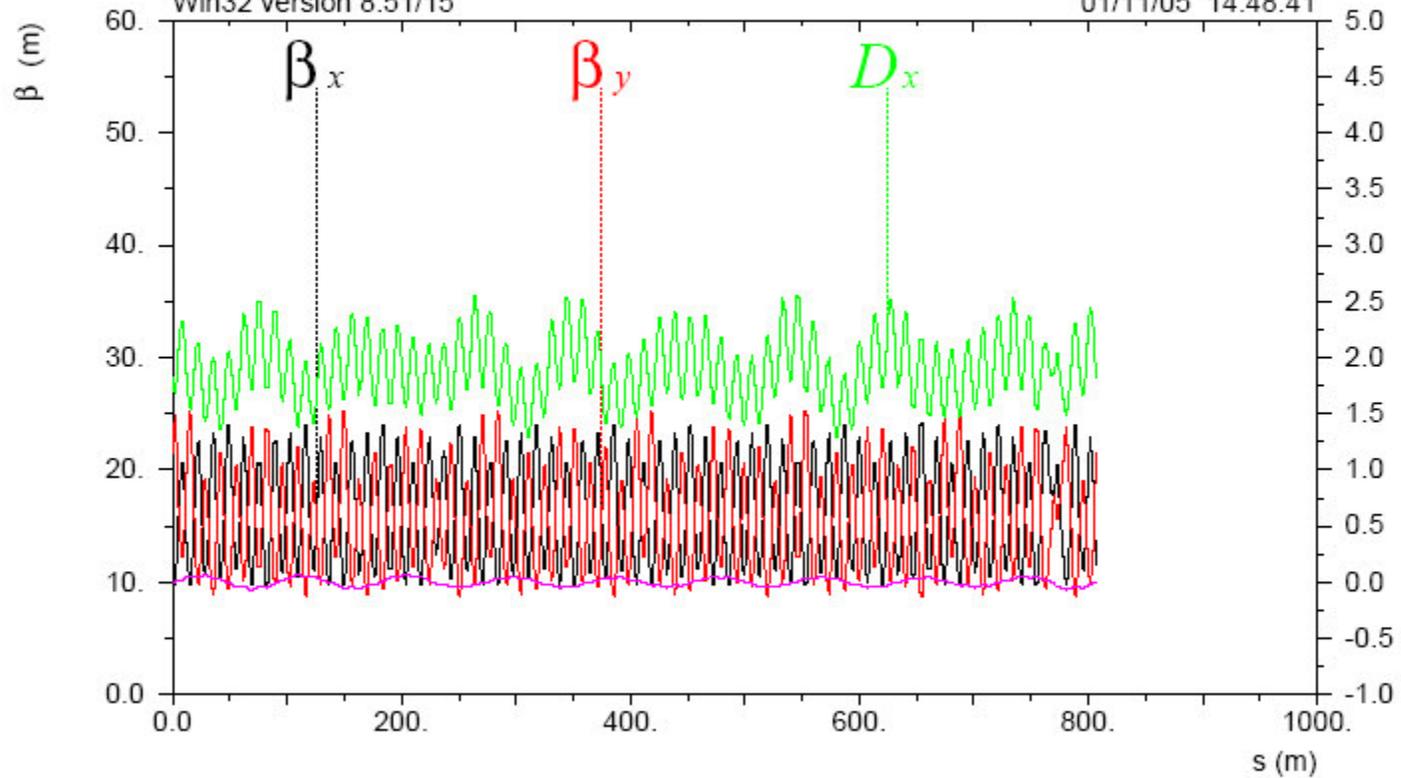
$$\delta_{\epsilon} / p_{\circ} c = 0.$$

Table name = FINAL



Cold snake at A20, warm at E20, ring B11 to B10  
AGS with two snakes, Gamma = 4.0, tunes 8.6, 8.96  
Win32 version 8.51/15

01/11/05 14.48.41



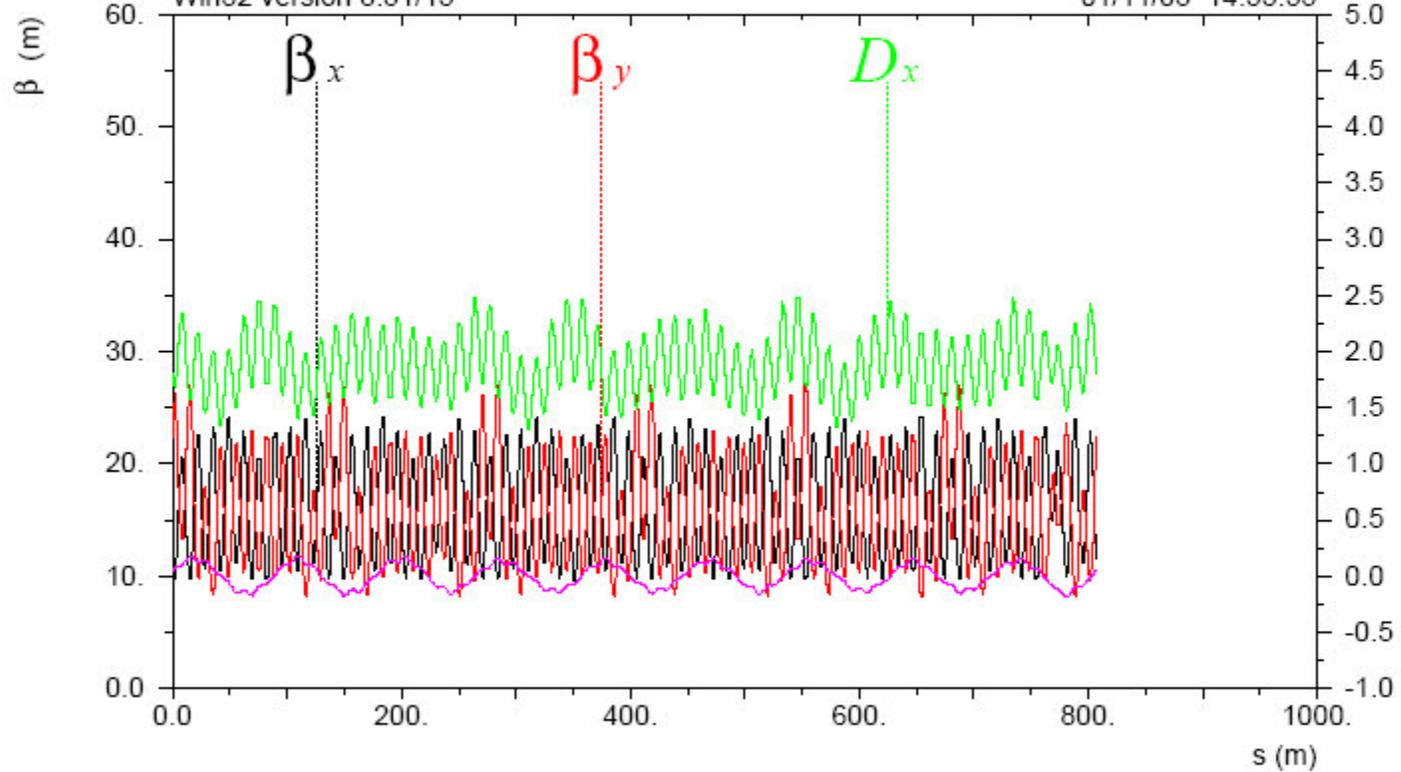
$\delta_{\epsilon} / p_{\circ} c = 0.$

Table name = FINAL



Cold snake at A20, warm at E20, ring B11 to B10  
AGS with two snakes, Gamma = 4.5, tunes 8.6, 8.98  
Win32 version 8.51/15

01/11/05 14.53.55



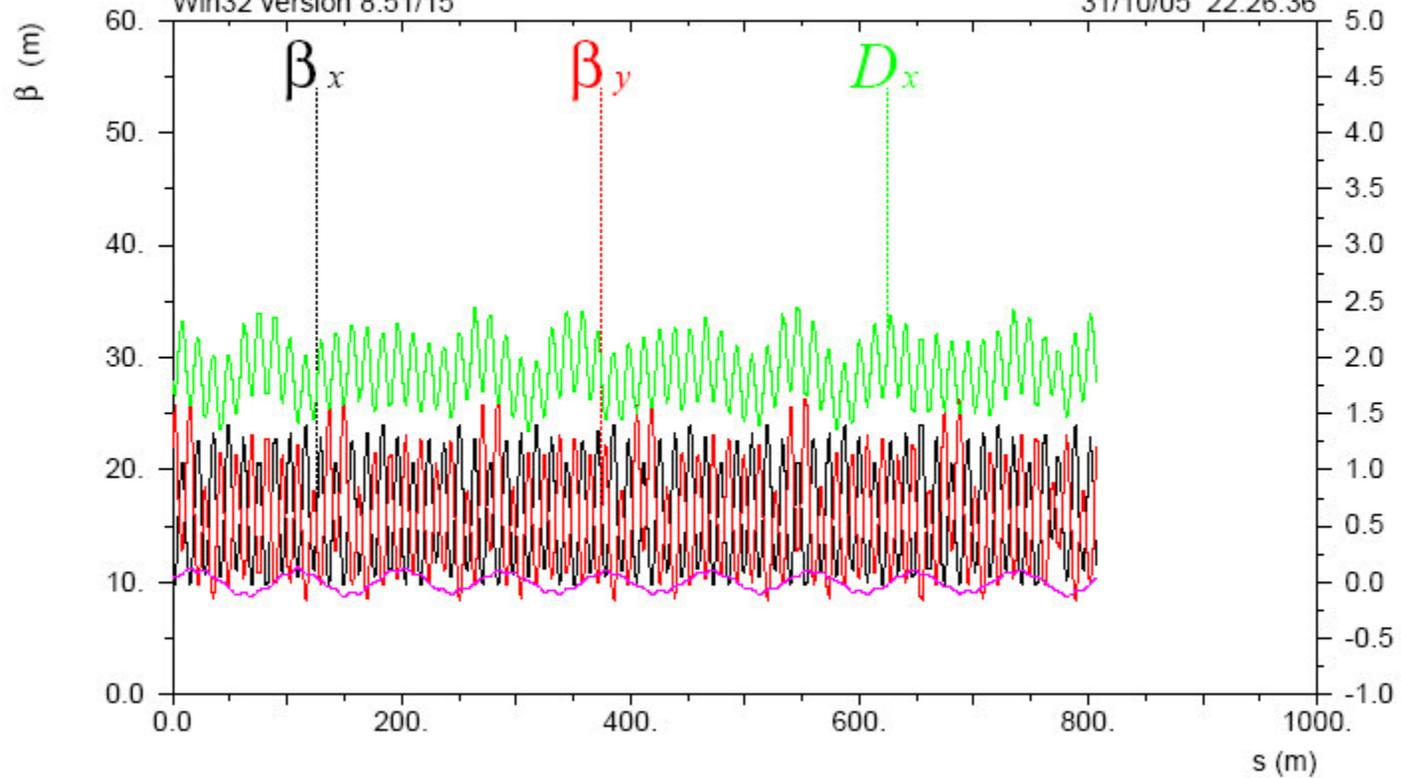
$$\delta_{\epsilon} / p_{\circ} c = 0.$$

Table name = FINAL



Cold snake at A20, warm at E20, ring B11 to B10  
AGS with two snakes, Gamma = 5.0, tunes 8.6, 8.98  
Win32 version 8.51/15

31/10/05 22.26.36



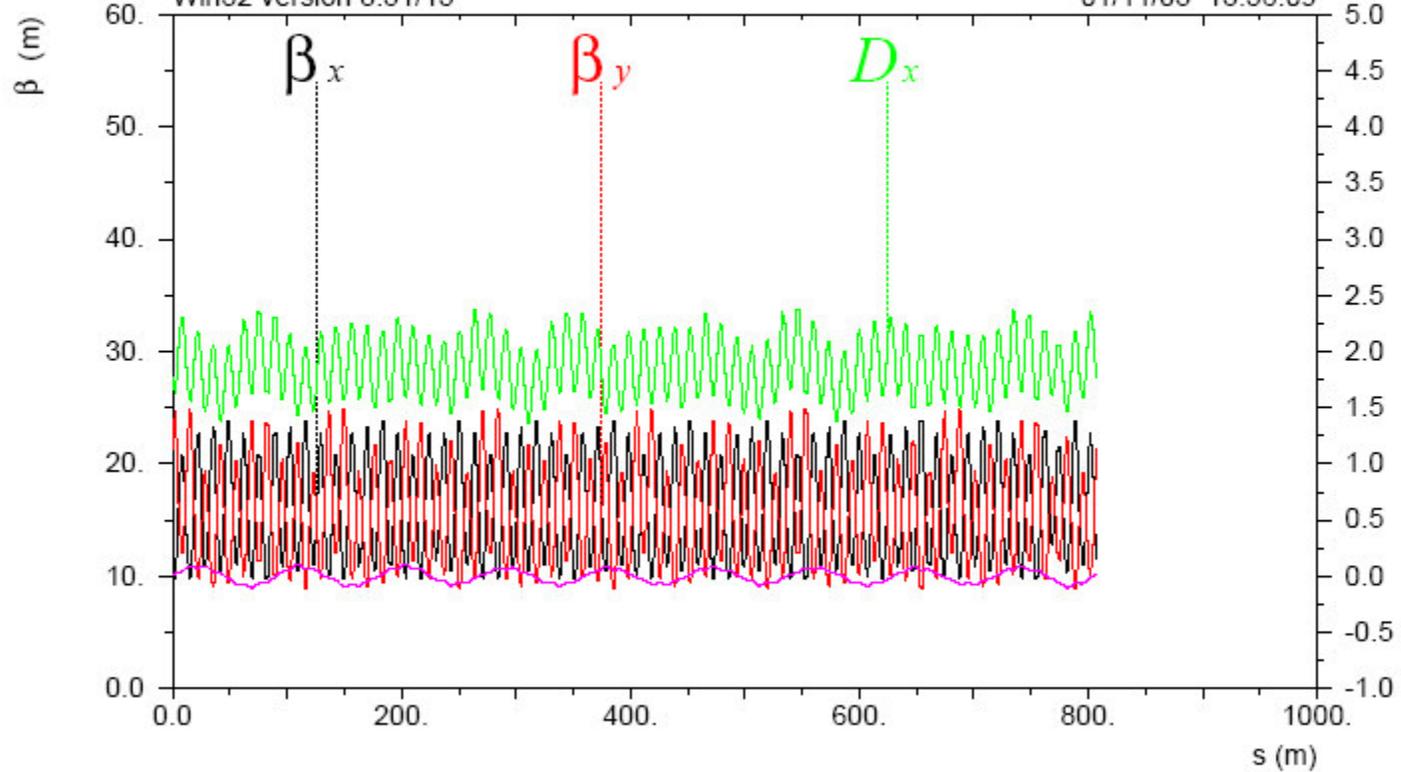
$\delta_{\epsilon} / p_{\circ} c = 0.$

Table name = FINAL



Cold snake at A20, warm at E20, ring B11 to B10  
AGS with two snakes, Gamma = 6.0, tunes 8.6, 8.98  
Win32 version 8.51/15

01/11/05 13.56.09



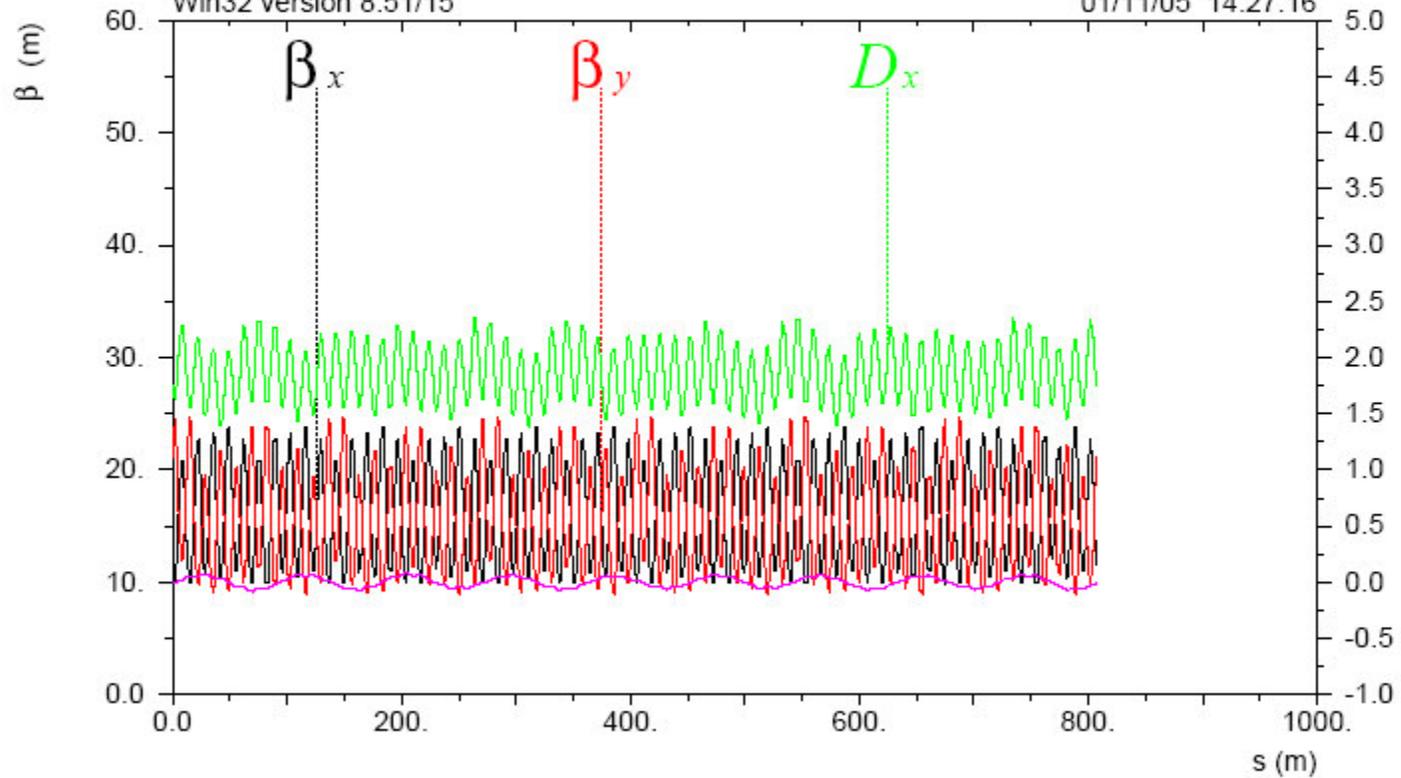
$\delta_{\epsilon} / p_{0c} = 0.$

Table name = FINAL



Cold snake at A20, warm at E20, ring B11 to B10  
AGS with two snakes, Gamma = 7.0, tunes 8.6, 8.98  
Win32 version 8.51/15

01/11/05 14.27.16



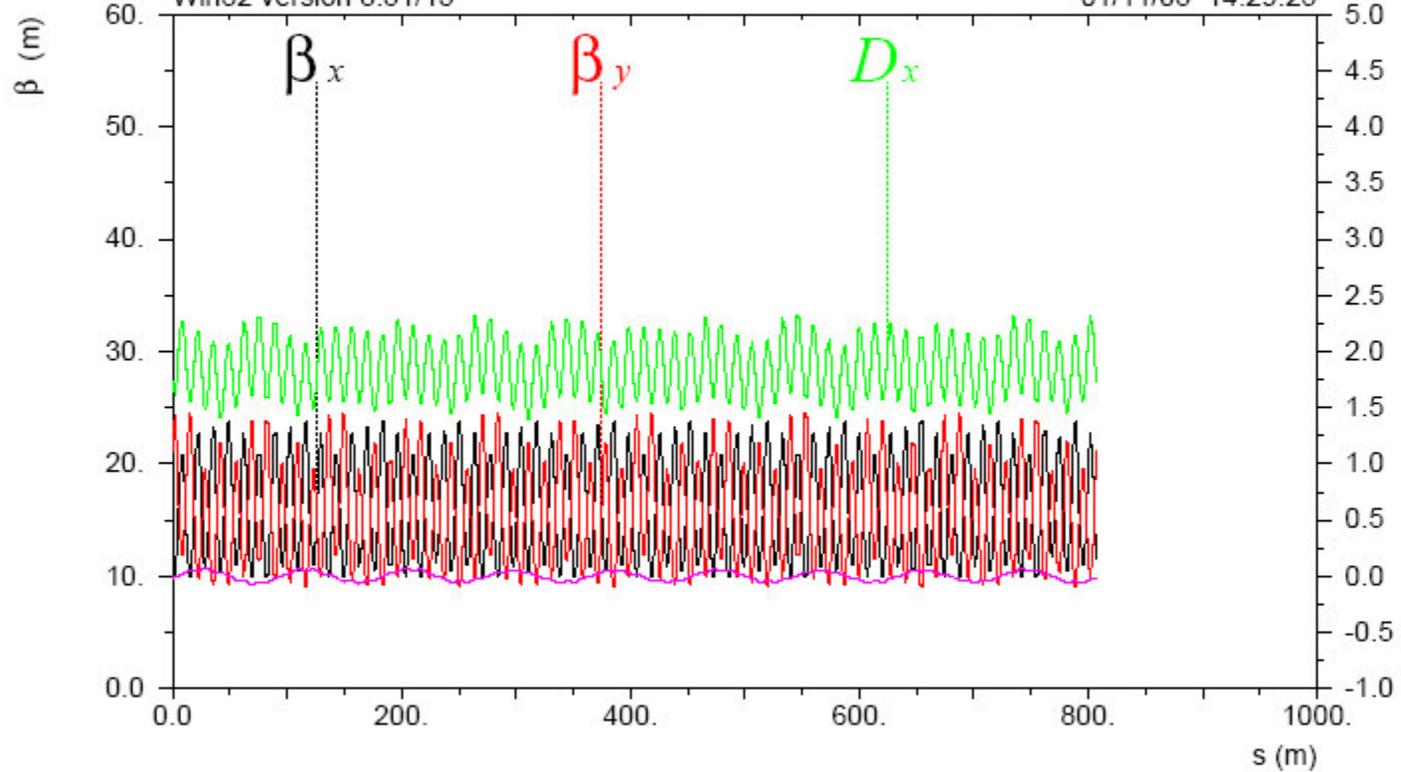
$$\delta_{\epsilon} / p_{\circ} c = 0.$$

Table name = FINAL



Cold snake at A20, warm at E20, ring B11 to B10  
AGS with two snakes, Gamma = 8.0, tunes 8.6, 8.98  
Win32 version 8.51/15

01/11/05 14.29.25



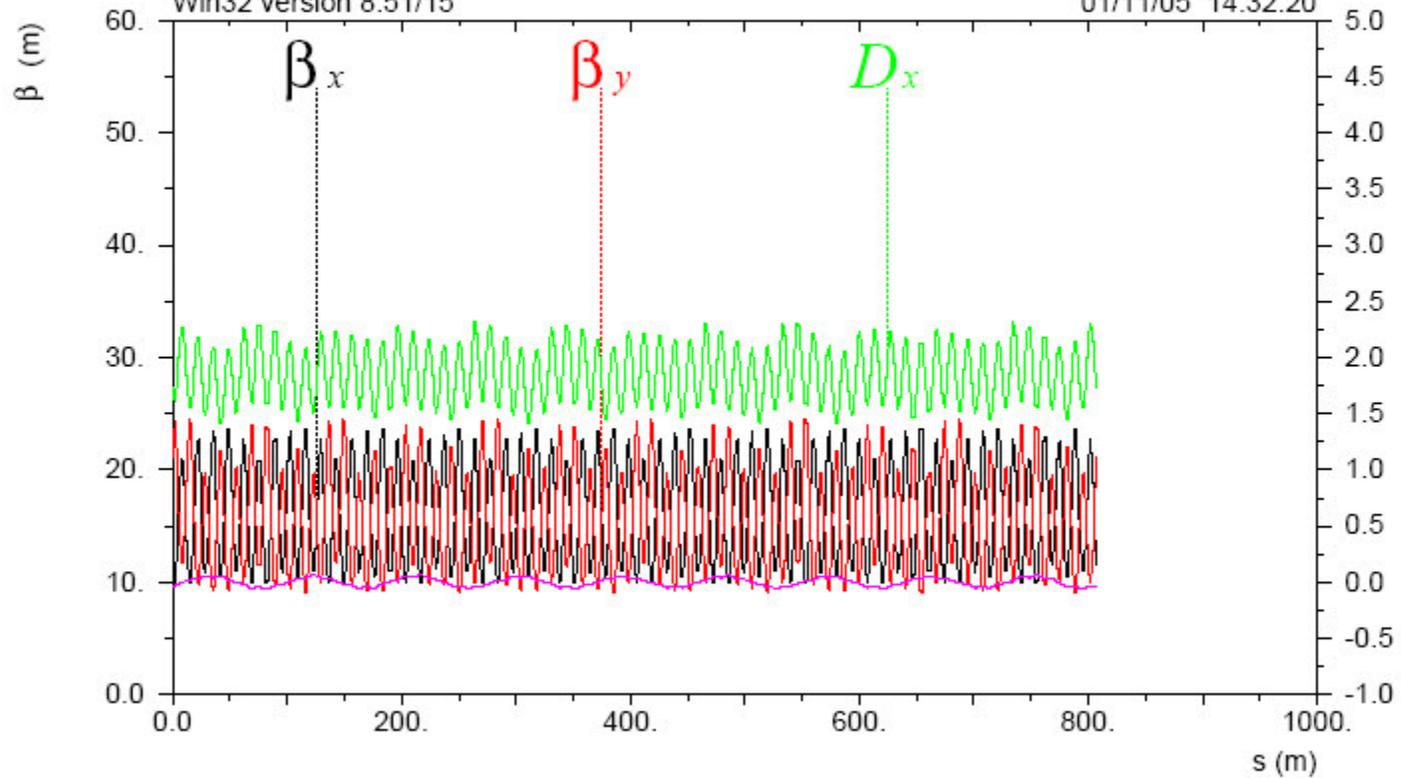
$\delta_{\epsilon} / p_{\circ} c = 0.$

Table name = FINAL



Cold snake at A20, warm at E20, ring B11 to B10  
AGS with two snakes, Gamma = 9.0, tunes 8.6, 8.98  
Win32 version 8.51/15

01/11/05 14.32.20



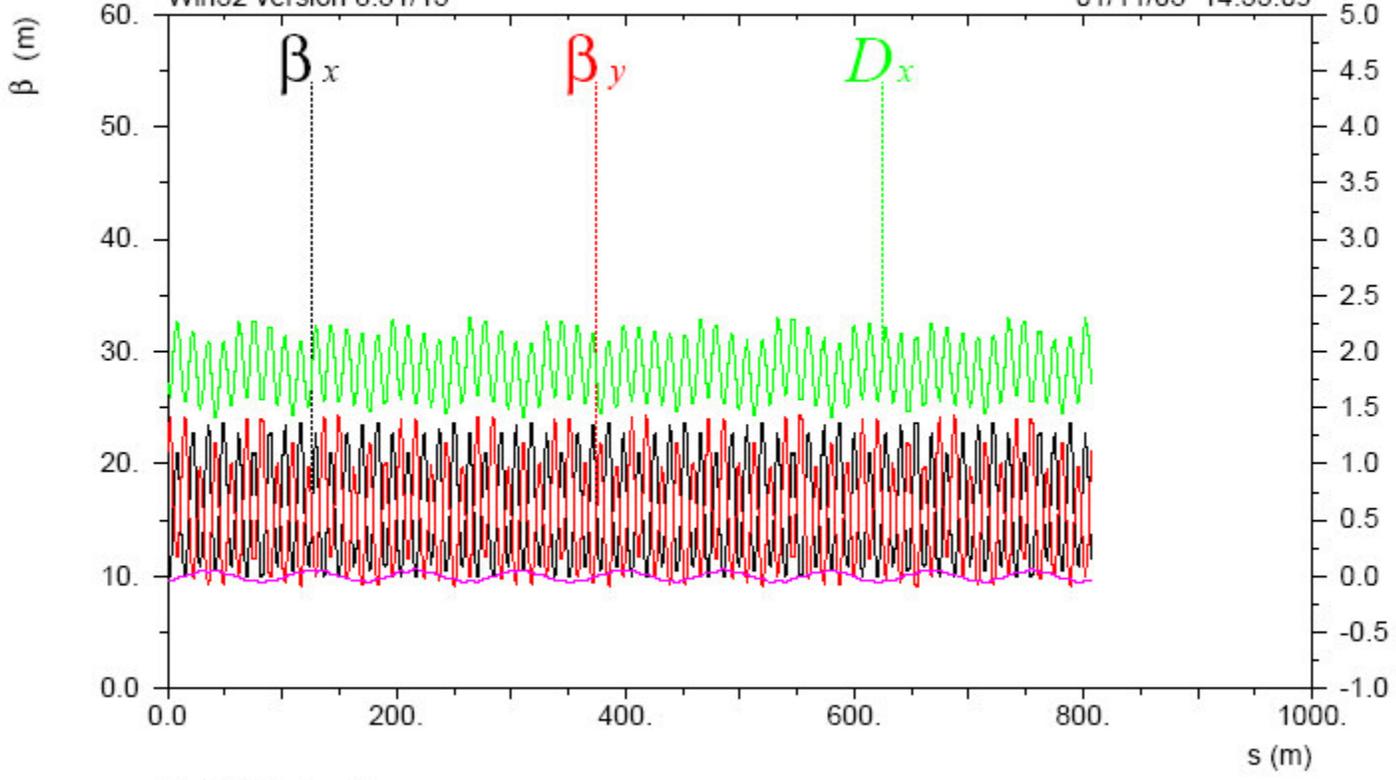
$\delta_{\epsilon} / p_{0c} = 0.$

Table name = FINAL



Cold snake at A20, warm at E20, ring B11 to B10  
AGS with two snakes, Gamma = 10.0, tunes 8.6, 8.98  
Win32 version 8.51/15

01/11/05 14.33.09



$$\delta_{\epsilon} / p_{\circ} c = 0.$$

Table name = FINAL