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Below is a table listing the constraints ctf_12wig was optimized with using BMADZ. All but chromaticity and unstable ring have been implemented in tao. Once those are implemented we will reoptimize ctf_12wig to verify we get the same results as BMADZ. After verification we will be using tao to perform other optimizations on the CesrTF lattices.

Parameter	Dimension	Type	Value	Weight	Where
beta	x	target	1.266	1.0e1	IP_L0
beta	y	target	27.25	5.0e1	IP_L0
beta	x	max	50.0	4.0e13	IP_L0 to IP_L0_END
beta	y	max	55.0	4.0e13	IP_L0 to IP_L0_END
alpha	x	amp max	0.001	1.0e16	IP_L0_END
alpha	y	amp max	0.001	1.0e16	IP_L0_END
alpha	x	amp max	0.001	1.0e16	IP_L3
alpha	y	amp max	0.001	1.0e16	IP_L3
eta	x	amp max	1.5	2.0e14	Q03W to Q03E
eta	x	amp max	3.	1.0e6	Q03W to Q03E
etap	x	amp max	0.0	1.0e16	IP_L3
etap	x	amp max	0.0	1.0e13	IP_L0_END
phase	x	target	14.53	1.0e17	IP_L0 to IP_L0_END
phase	y	target	9.58	1.0e1	IP_L0 to IP_L0_END
emittance	n	max	6.e-9	5.e23	GLOBAL
chrom	x	target	1.	1.0	GLOBAL
chrom	y	target	1.	1.0	GLOBAL
unstable ring	n	target	0.	1.e16	GLOBAL