Comparison of Physics Properties, M12 and M21

Plasma ID	LI383 Fixed Boundary	M12.3.K29 Optimized M12	M12.3.K52 Smoothed M12	M21.3.K17 Optimized M21
Coil ID		0227a1	0227a2	0711a1
Coils/period		7	7	6
Symmetric coil angle		v=0	v=0	None
A	4.36	4.36	4.32	4.37
<β> (%)	4.19	4.09	4.13	4.14
R (m) [Geometrical]	1.734	1.729	1.730	1.733
<a> (m)	0.397	0.396	0.400	0.395
Minimum R (m)	1.209	1.207	1.201	1.215
Maximum R (m)	2.173	2.143	2.153	2.166
Maximum Z (m)	0.764	0.766	0.773	0.755
Min. Distance to Limiter (cm)	1.14	0.62	0.19	0.47
ι (0)	0.394	0.411	0.411	0.412
ι (1)	0.655	0.657	0.658	0.652
ι, Max	0.662	0.665	0.664	0.664
λ, kink, N=1(x10^4), New Eval, 91 modes	0.1	0.3	Stable	Stable
λ, kink, N=0	Stable	Stable	Stable	Stable
λ, ballooning, ζ = 0	0.85-0.88	0.86-0.88	0.86-0.90	Stable
λ, ballooning, ζ = 60	0.91-0.96	0.92-0.96	0.92-0.96	Stable
χ^2, Unweighted Bmn (x10^4)				
s = 0.3	0.5	0.7	0.7	0.6
s = 0.5	1.7	2.0	2.1	1.8
s = 0.8	6.9	7.5	8.0	7.7
$\varepsilon_{eff}^{3/2}$ (x10^4)				
s = 0.3	1.0	1.4	1.5	1.9
s = 0.5	5.6	4.6	5.2	5.0
s = 0.8	32.0	25.0	27.0	28.0
f_{NB}, E=40 keV, B=2 T, H (%), ζ=0	14.8	14.2	15.1	14.2
ζ=90	13.0	12.4	14.2	13.4
ζ=180	15.5	14.5	15.3	14.1

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