

Reconstruction of Physics Properties

M. Zarnstorff

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Method:

- Free boundary optimization
 - Target ballooning, kink, B_{mn} , A , R_{\min}
 - Check deviation to 18/26 PFC boundary
 - Target RB_T to $1.75m*2T$
 - Fixed pressure & current & profiles; $\beta = 4.1 - 4.2\%$
- Vary all coil currents
- TERPSICHORE $coep=coec=1.02$

Current status (runs continuing)

	A	N=1kink	ballooning	Bmn	Dist		
383_328	4.4	stable	6/49 surf.	0.015			
M2	4.25	stable	stable	0.021	0.09cm	09/07	.3.z07
M3	4.15	-3.6e-6	stable	0.023	1.0 cm	Leg out	
S1				~0.06		8 Berr	
S2		~2e-3		0.040		14 Berr, high Jmax	
S3	4.00	stable	stable	0.041		8 Xerr	
S4	4.03	stable	stable	0.041		14 Xerr	
S5	4.07	~1e-4	stable	0.036		14 Berr	

Generally:

- Much harder to get c2-Bmn down with saddle coils
- Still have to look at N=0 kink stability
- Still have to look at ballooning stability for other field-lines

