

Results of Random Assembly of Modular Coils with Trim Coil Correction

Tom's 72 Coil Set Between Located MCWF & TF						
#Coil Sets	#Coils	Coil Subset	1 mm Tolerance		1.5 mm Tolerance	
			Total Islands, %Flux	Max Current, KAT	Total Islands, %Flux	Max Current, KAT
	2	12 7_11	1.65	53.08	2.02	79.62
	3	18 1_2_8	1.91	28.47	2.34	42.71
	4	24 1_2_7_8	1.55	19.65	1.90	29.48
	5	30 1_2_7_9_12	1.49	17.22	1.82	25.83
	12	72 All	1.47	9.43	1.80	14.15

1_2_7_8 Configuration Expanded Toroidally 3x (ie includes adjacent coils at same current)						
	#Coils	1 mm Tolerance		1.5 mm Tolerance		
		Total Islands, %Flux	Max Current, KAT	Total Islands, %Flux	Max Current, KAT	
	2					
	3					
	4	24 1_2_7_8	1.54	8.57	1.89	12.86
	5					

Note: The **1_2_7_8** is the set of all coils that straddle symmetry planes (ie A-A & C-C)
 The expanded set provides complete coverage toroidally (3x24=72)
 In graphic at right, like colors are joined into a single coil
 For all cases only 12 modes targeted to allow comparison

