

HST.583 Functional Magnetic Resonance Imaging: Data Acquisition and Analysis
Fall 2008

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Table 1 - Human Data - Gray Matter

Resolution	Signal	Thermal Noise	Time-Series Noise	Spatial SNR	Temporal SNR
1.5x1.5x1.5	1096.2	32.6	63.2	22.0	
3x3x3	1071.6	10.3	21.3	68.1	
5x5x5	858.0	2.9	9.6	193.8	

Table 2 - Phantom Data

Resolution	Signal	Thermal Noise	Time-Series Noise	Spatial SNR	Temporal SNR
1.5x1.5x1.5	2914.5	23.1	43.8		
3x3x3	2879.5	9.4	13.9		
5x5x5	2827.3	1.8	4.6		

Table 3 - Human Data - White Matter

Resolution	Signal	Thermal Noise	Time-Series Noise	Spatial SNR	Temporal SNR
1.5x1.5x1.5	810.6	35.1	59.9		
3x3x3	907.2	10.0	20.7		
5x5x5	925.6	3.0	6.3		

Table 4 - Human Data - CSF

Resolution	Signal	Thermal Noise	Time-Series Noise	Spatial SNR	Temporal SNR
1.5x1.5x1.5	1561.8	32.5	177.3		
3x3x3	1261.8	10.0	48.2		
5x5x5	1084.4	3.2	11.8		