

**Table S5.** Module-specific and Global Brain Networks Properties (Temporal Scale)

Threshold, $S$	Module	$\langle k \rangle$	$C_p$	$L_p$	$E_{loc}$	$E_{glob}$
8.41%	M I	8.60 (1.62±0.41)	0.68 (0.25±0.13)	1.41 (8.67±3.41)	0.79 (0.26±0.14)	0.71 (0.13±0.05)
	M II	5.86 (1.09±0.39)	0.76 (0.15±0.14)	1.43 (11.40±6.09)	0.88 (0.16±0.15)	0.70 (0.11±0.05)
	M III	5.11 (1.45±0.42)	0.42 (0.22±0.14)	1.63 (9.57±4.17)	0.54 (0.23±0.15)	0.61 (0.12±0.05)
	M IV	4.11 (1.43±0.40)	0.63 (0.21±0.14)	1.92 (9.57±4.10)	0.74 (0.22±0.15)	0.52 (0.12±0.05)
	M V	8.60 (1.61±0.40)	0.67 (0.25±0.13)	1.41 (8.67±3.27)	0.81 (0.26±0.14)	0.71 (0.13±0.05)
10.79%	M I	9.76 (1.74±0.45)	0.82 (0.28±0.15)	1.25 (6.83±2.96)	0.91 (0.29±0.16)	0.80 (0.17±0.07)
	M II	7.14 (1.38±0.42)	0.79 (0.21±0.16)	1.30 (8.00±3.61)	0.89 (0.22±0.16)	0.77 (0.15±0.06)
	M III	6.70 (2.06±0.44)	0.61 (0.33±0.13)	1.53 (5.90±2.10)	0.79 (0.35±0.04)	0.65 (0.19±0.07)
	M IV	5.26 (1.93±0.44)	0.58 (0.30±0.14)	1.70 (6.25±2.46)	0.73 (0.32±0.14)	0.59 (0.18±0.07)
	M V	10.60 (2.08±0.45)	0.78 (0.33±0.13)	1.31 (5.80±2.06)	0.89 (0.35±0.14)	0.76 (0.19±0.07)
12.16%	M I	9.91 (2.54±0.46)	0.76 (0.38±0.12)	1.38 (4.40±1.50)	0.88 (0.41±0.13)	0.73 (0.25±0.07)
	M II	7.57 (1.62±0.52)	0.79 (0.26±0.17)	1.26 (6.48±3.12)	0.89 (0.27±0.18)	0.79 (0.19±0.08)
	M III	7.76 (1.94±0.49)	0.59 (0.31±0.15)	1.36 (5.69±2.40)	0.73 (0.33±0.16)	0.74 (0.20±0.08)
	M IV	5.65 (1.95±0.50)	0.58 (0.30±0.15)	1.56 (5.67±2.28)	0.73 (0.32±0.16)	0.64 (0.20±0.08)
	M V	11.20 (2.31±0.48)	0.82 (0.36±0.13)	1.28 (4.85±1.77)	0.91 (0.39±0.14)	0.78 (0.23±0.08)
15.38%	M I	11.60 (2.94±0.53)	0.79 (0.43±0.12)	1.24 (3.24±1.03)	0.90 (0.47±0.12)	0.80 (0.33±0.08)
	M II	8.56 (2.60±0.51)	0.75 (0.39±0.13)	1.37 (3.57±1.23)	0.87 (0.43±0.14)	0.73 (0.31±0.09)
	M III	9.60 (2.92±0.51)	0.61 (0.42±0.12)	1.34 (3.23±0.99)	0.80 (0.46±0.13)	0.75 (0.33±0.08)
	M IV	6.43 (2.00±0.52)	0.66 (0.32±0.16)	1.37 (4.48±1.95)	0.80 (0.34±0.17)	0.73 (0.26±0.10)
	M V	13.00 (2.58±0.51)	0.86 (0.40±0.12)	1.13 (3.66±1.29)	0.93 (0.43±0.13)	0.88 (0.30±0.09)
16.78%	M I	11.90 (3.19±0.53)	0.79 (0.45±0.11)	1.23 (2.81±0.78)	0.89 (0.49±0.12)	0.81 (0.38±0.08)
	M II	9.33 (2.85±0.53)	0.80 (0.42±0.13)	1.32 (3.10±1.02)	0.90 (0.46±0.14)	0.75 (0.35±0.09)
	M III	10.53 (3.02±0.52)	0.67 (0.44±0.12)	1.26 (2.96±0.90)	0.83 (0.48±0.13)	0.79 (0.36±0.09)
	M IV	6.67 (2.34±0.53)	0.67 (0.37±0.15)	1.39 (3.67±1.41)	0.81 (0.39±0.16)	0.72 (0.31±0.10)
	M V	13.67 (2.86±0.52)	0.89 (0.42±0.13)	1.11 (3.06±0.99)	0.94 (0.46±0.14)	0.90 (0.35±0.09)

The  $S$  column denotes the sparsity of temporal brain functional networks.  $\langle k \rangle$ ,  $C_p$ ,  $L_p$ ,  $E_{loc}$  and  $E_{glob}$  denote the average degree, clustering coefficient, characteristic path length, local and global efficiency, respectively. The values in bracket are the corresponding global network parameters that were obtained from 1000 random modules (see Materials and Methods).