

Tier	Session + Year	Max Marks	9	8	7	6	5	4	3	2	1	U
Foundation Paper (1F and 2F)	June 2019	200	-	-	-	-	130	106	78	51	24	0
Higher Paper (1H and 2H)	June 2019	200	154	137	121	98	75	53	42	-	-	0
Foundation Paper (1F and 2F)	November 2020	200	-	-	-	-	113	83	58	34	10	0
Higher Paper (1H and 2H)	November 2020	200	149	130	111	86	61	36	23	-	-	0
Foundation Paper (1F and 2F)	November 2021	200	-	-	-	-	110	85	60	35	10	0
Higher Paper (1H and 2H)	November 2021	200	149	128	108	85	62	39	27	-	-	0
Foundation Paper (1F and 2F)	June 2022	200	-	-	-	-	123	104	75	46	17	0
Higher Paper (1H and 2H)	June 2022	200	156	138	121	99	78	57	46	-	-	0
Foundation Paper (1F and 2F)	June 2023	200	-	-	-	-	134	119	86	54	22	0
Higher Paper (1H and 2H)	June 2023	200	163	147	131	111	92	73	64	-	-	0

# May 2014 Physics 625 Cambridge Grade Boundries

**Yan M. Yufik, Biswa Sengupta, Karl  
Friston**



## **May 2014 Physics 625 Cambridge Grade Boundries:**

**Self-Organization in the Nervous System** Yan M. Yufik, Biswa Sengupta, Karl Friston, 2017-11-30 This special issue reviews state of the art approaches to the biophysical roots of cognition. These approaches appeal to the notion that cognitive capacities serve to optimize responses to changing external conditions. Crucially, this optimisation rests on the ability to predict changes in the environment, thus allowing organisms to respond pre-emptively to changes before their onset. The biophysical mechanisms that underwrite these cognitive capacities remain largely unknown, although a number of hypotheses has been advanced in systems neuroscience, biophysics and other disciplines. These hypotheses converge on the intersection of thermodynamic and information theoretic formulations of self organization in the brain. The latter perspective emerged when Shannon's theory of message transmission in communication systems was used to characterise message passing between neurons. In its subsequent incarnations, the information theory approach has been integrated into computational neuroscience and the Bayesian brain framework. The thermodynamic formulation rests on a view of the brain as an aggregation of stochastic microprocessors, neurons, with subsequent appeal to the constructs of statistical mechanics and thermodynamics. In particular, the use of ensemble dynamics to elucidate the relationship between micro scale parameters and those of the macro scale aggregation of the brain. In general, the thermodynamic approach treats the brain as a dissipative system and seeks to represent the development and functioning of cognitive mechanisms as collective capacities that emerge in the course of self organization. Its explicanda include energy efficiency enabling progressively more complex cognitive operations such as long term prediction and anticipatory planning. A cardinal example of the Bayesian brain approach is the free energy principle that explains self organizing dynamics in the brain in terms of its predictive capabilities and selective sampling of sensory inputs that optimise variational free energy as a proxy for Bayesian model evidence. An example of thermodynamically grounded proposals in this issue associates self organization with phase transitions in neuronal state spaces, resulting in the formation of bounded neuronal assemblies, neuronal packets. This special issue seeks a discourse between thermodynamic and informational formulations of the self organising and self evidencing brain. For example, could minimization of thermodynamic free energy during the formation of neuronal packets underlie minimization of variational free energy?

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