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Random Matrices, Random Graphs and Statistical Physics for Machine Learning and Inference | (smr 3703)

Friday 20 May 2022

- Adriatico Guest House - Giambiagi Lecture Hall (09:30-16:45)

time	title	presenter
09:30	Statistics of the Lagrange multipliers	PIERPAOLO VIVO
10:15	Coffee break	
10:40	Techniques: (i) Kac-Rice formula (ii) minimisation as $\beta \rightarrow \infty$ limit of the free energy of an associated canonical problem (iii) replica trick to get rid of the logarithm (iv) Random matrix tools to deal with the randomness in the coefficients	PIERPAOLO VIVO
11:25	Information-theoretic limits to graph alignment	LAURENT MASSOULIE
12:10	Lunch Break	
14:00	Polynomial-time graph alignment from feasibility of testing tree correlation	LAURENT MASSOULIE
14:45	Break	
15:00	Statistical physics and random matrix theory for statistical inference V	MARC LELARGE
15:45	Break	
16:00	Statistical physics and random matrix theory for statistical inference VI	MARC LELARGE