Mathcamp 2017 Week 5 Schedule

Time	Room	Tuesday	Wednesday	Thursday	Friday
7:00–9:00	Wheelock	Breakfast			
9:10–10:00	J208	**Assembly (M103)**	The Kakeya Maximal Conjecture ♩♩♩♩ (Yuval)	How Not To Prove That a Group Isn't Sofic ♩♩♩♩ (Viv)	
	T171		Surreal Numbers ♩ (Jalex)	The Baire Category Theorem ♩♩ (Lara)	
	T193		[M103] Solving Cubic and Quartic ♩♩–♩♩♩ (Aaron)	Simplicity Itself: A_n and the "Other" A_n ♩♩–♩♩♩ (Mark)	
	T197		Choosing Random Numbers ♩ (Misha)	Cap-Set Problem: Recent Progress ♩♩♩ (Paweł Burzyński)	
10:10–11:00	T189	Computer Aided Design ♩ (Elizabeth)		[J208] What is Homology? ♩♩♩♩ (Apurva)	
	T171	Laws of Large Numbers ♩♩ (Lara)		And That Is Why Birds Shouldn't Drink Alcohol ♩♩ (Beatriz)	
	T193	Queueing Theory ♩♩♩ (Misha)		Machine Learning (NO Neural Networks) ♩♩♩ (Linus)	
	T374	Galois Theory Crash Course ♩♩♩♩ (Mark)			
11:10–12:00	J208	Penrose Tilings ♩♩ (Steve)	Every Natural is "Fibonacci" ♩ (Beatriz)	Topological Groups ♩♩♩ (Aaron)	
	T171	My Favorite Magic Trick ♩♩ (Don)	Non-Classical Logic (Joshua Schluter)	Problem Solving: Linear Algebra ♩♩♩ (Misha)	
	M103	Exclusion-Inclusion (*Po-Shen Loh*)	[T193] Problem Solving: "Just Do It" ♩♩ (Linus)	[T193] How to "Divide" ♩♩♩ (Don)	
	T197	Mathematics in Crisis ♩♩ (Sam)	Algorithms for Randomish Numbers ♩♩ (Sam)	Smol Results on Möbius ♩♩ (Karen Ge)	Intersecting Polynomials ♩♩ (Tim!)
11:30–1:30	Wheelock	Lunch			
1:10–2:00	J208	Welzl's Theorem ♩♩ (Jalex)	Impossible Cohomology ♩♩ (Don)	The Stable Marriage Problem ♩ (Beatriz)	Quandles ♩♩ (Susan)
	T171	Problem Solving: Convexity ♩♩♩ (Misha)	Fast Matrix Multiplication ♩♩ (Yuval)	The Szemerédi Regularity Lemma ♩♩♩♩ (Yuval)	
	T193	Godel's Incompleteness Theorem ♩♩♩ (Steve)			
	T197	Quadratic Reciprocity ♩♩♩ (Mark)		Calculus Without Calculus ♩♩ (Tim!)	
2:10–3:00	J208	How to Build a Calculator ♩ (Lotta)	[T193] Many Clubs Share People ♩♩ (Aaron)	[T193] Click Random ♩–♩♩♩♩ (Linus)	[T193] How Not to Solve Tricky Integrals ♩♩ (Steve)
	T171	Crash Course on Representation Theory ♩♩♩♩ (Apurva)		Finite "Sets" ♩♩♩ (Don)	
	J206	Permutation Statistics ♩♩ (Kevin)			
	T197	What's The Deal With e? ♩♩♩ (Susan)		The Combinatorial Nullstellensatz ♩♩♩♩ (Yuval)	
3:00–4:00	Classrooms	TAU			
4:00–5:00	M103	Math, Games, and Strategy (*Po-Shen Loh*)	The Future of You	Project Fair	The Future of Mathcamp
4:30–6:30	Wheelock	Dinner			

Key: [**HR**]—Homework Required   T—Thompson   M—McIntyre   J—Jones