

# Mathcamp 2024 — Week 4 Schedule [REVISED]

		Tuesday 7/23	Wednesday 7/24	Thursday 7/25	Friday 7/26	Saturday 7/27		
9:10–10 am	M103	Mandatory Assembly (McIntyre 103)	T171	Wallpaper patterns (week 2 of 2) 🌀 (Susan)				
			T193	Field extensions and Galois theory (week 2 of 2) 🌀🌀 (Mark)				
			T197	Error-correcting codes and sphere packing 🌀 (Kailee)				
			T387	Markov triples, continued fractions, and < 3 🌀 (Misha)				
			W218	Paradoxes	Fair division using topology 🌀 (Jane Wang)			
			W402	Totally positive	No class			
10:10–11 am	T171	Wallpaper (2/2)	No class					
	T193	Field extensions (2/2)	Commutative algebra/algebraic geometry (week 2 of 2) 🌀🌀 (Mark)					
	T197	Error-correcting codes	What is diagonalization? 🌀 (Della)	Hyperreal numbers 🌀 (Krishan)				
	T387	Markov triples < 3	The first black hole: Schwarzschild spacetime 🌀 (Laithy)					
	W218	Paradoxes in probability 🌀 (Jane Wang)	Algebraic complexity 🌀 (Yuval Wigderson)					
	W402	Totally positive, dude 🌀 (Mia Smith)	Root systems 🌀 (Kevin)					
11:10 am–noon	T171	A 3D reconstruction problem 🌀 (Tim!)						
	T193	Infinite games 🌀 (Krishan)		Infinite chess 🌀 (Della)				
	T387	Topological Tverberg's theorem 🌀🌀 (Viv Kuperberg)						
	W218	Intro to elliptic curves 🌀 (Chloe)						
	W402	Linear models 🌀 (Mira Bernstein)						
Lunch								
1:10–2 pm	Crafts Lounge	🕒 Building mathematical sculptures 🌀 (Zach)				noon–2:30 pm	Wheelock	Lunch (until 1:30 pm) and Advisor Meetings
	W402	🕒 Ghostly graphs: or, Why bother with combinatorics when you could do linear algebra? 🌀 (Travis)				2:30–3 pm	Wheelock	Ask next week's teachers
	T171	🕒 Building (weird) topological spaces 🌀 (Dan Zaharopol)				3:10–4 pm	Crafts Lounge	Sculptures
	T197	[HW] Representation theory 🌀🌀 (Aaron Landesman)					W402	Ghostly graphs
	T387	🕒 Teichmueller theory of the torus 🌀 (Arya)					T171	(Weird) spaces
2–4 pm	Thompson	TAU					T197	Rep. theory
4:10–5 pm	M103 (Colloquium)	Peg solitaire to infinity (Misha)	(In Wheelock) Math education, access, and opportunity (Dan Zaharopol)	The law of anomalous numbers (Yuval Wigderson)	A mathematical headache (and perhaps a cure) (Mira Bernstein)		T387	Teichmueller
						4:10–5:30 pm	Relays near the Obelisk!	

Evening Team Problem Solving

Meals: Breakfast 7–9 am, Lunch 11:30 am–1:30 pm, Dinner 4:30–6:30 pm (Wheelock)

Key: M = McIntyre T = Thompson, W = Weyerhaeuser, [HW] = Homework Required,

🕒 = Class meets for 80 minutes 1:10–2:30 pm (through first 30 minutes of TAU).