

Name:

Mathcamp 2004, week 5: Tuesday 10th August to Friday 13th August

Period	Room	Tuesday	Wednesday	Thursday	Friday
9—10	L413	Assembly (A5)	Algebra of Statements * (Brenda)	Algebra of Statements * (Brenda)	Math behind silly games * (Jim)
	L302		Redfield-Polya Theorem **_*** (Alfonso)	Redfield-Polya Theorem **_*** (Alfonso)	Tropical Geometry *** (Brenda)
	L303		Generalised Riemann Integrals **** (Julian)	Generalised Riemann Integrals **** (Julian)	Generalised Riemann Integrals **** (Julian)
	M405		Olympiad Problem Solving **** (Dorin)	Olympiad Problem Solving **** (Dorin)	Olympiad Problem Solving **** (Dorin)
10:05—11:05	L413	Don't you own a model of the hyperbolic plane yet? * (Yvonne)	Museum guards and fixed points * (Yvonne)	The Stable Marriage Problem * (Moses)	Moses teaches <i>everything</i> **** (Moses, Arey 5)
	M405	Category Theory **** (Anti)	Category Theory **** (Anti)	Category Theory **** (Anti)	
	L302	Generating Functions and Partitions **_*** (Julian)	Generating Functions and Partitions **_*** (Mark)	Generating Functions and Partitions **_*** (Mark)	Generating Functions and Partitions **_*** (Mark)
	L303	Cryptography **** (Moses)	Cryptography **** (Moses)	The Busiest Beaver (recursive functions and the Ackermann function) ***_**** Kenny	The Busiest Beaver (recursive functions and the Ackermann function) ***_**** Kenny
11:10—12:10	L413	Problem solving, in math and beyond (Richard Rusczyk, Arey 5)	Camper's choice: Mathematical Sculpture or Four-dimensional Geometry or Three-dimensional Printing (George Hart, Arey 5)	Math Movies *_** (Chris)	Math Movies *_** (Chris)
	M405			Linkages **_*** (Jim)	Geometric Calculus **_*** (Anti)
	See class			Functional Equations (Richard Rusczyk, Arey 5)	A Challenging Paper Puzzle Construction (George Hart, Leonard Lounge)
	L302			Mysterious Binomial Sums *** (Dave)	Mysterious Binomial Sums *** (Dave)
	L303			Pathotopology **** (Alfonso)	Pathotopology **** (Alfonso)
Lunch		Lunch	Lunch	Lunch	Lunch
1:20—2:20	L302	Making things equal * (Mark)	How to catch a lion * (Julian)	The Mandelbrot and Julia sets * (Moses)	Reading a newspaper * (Julian)
	L303	0 th order illogic (Paraconsistent propositional logic) ** Kenny	0 th order illogic (Paraconsistent propositional logic) ** Kenny	Nailing down determinants ** (Mark)	Nailing down determinants ** (Mark)
	A5	Geometry I: Three Basic Tools (Richard Rusczyk)	Geometry II: Advanced Problems (Richard Rusczyk)	Inversion (Richard Rusczyk)	Surprising Uses of Probability (Richard Rusczyk)
	L413	Topics in graph theory **_*** (Jeremy)	Topics in graph theory **_*** (Jeremy)	Topics in graph theory **_*** (Jeremy)	Topics in graph theory **_*** (Jeremy)
	M405	A product formula for sines **** (Dave)	A product formula for sines **** (Dave)	Bad Arithmetic, Tori, and why $SL(2, \mathbb{Z})$ is so cool ***_**** (Yvonne)	Bad Arithmetic, Tori, and why $SL(2, \mathbb{Z})$ is so cool ***_**** (Yvonne)
2:30—3:30	M405	Introductory Problem Solving *_** (Dorin)	Introductory Problem Solving *_** (Dorin)	Introductory Problem Solving *_** (Dorin)	Project Fair! (Campers! From 3pm, in the Lovejoy classrooms)
	A5	The Keg Index: a mathematical theory of drunkenness ** (Chris)	Perfect Numbers * (Mark)	The Feeling of Power * (Anti)	
	L413	Blowing Stuff Up *** (Brenda)	Braids **_*** (Jim)	Braids **_*** (Jim)	
	L302	Many Cheerful Facts about the Cantor Set *** (Alice)	Many Cheerful Facts about the Cantor Set *** (Alice)	Many Cheerful Facts about the Cantor Set *** (Alice)	
	L303	Noncommutative Ring Theory **** (Ari)	Noncommutative Ring Theory **** (Ari)	Noncommutative Ring Theory **** (Ari)	
3:30—5:00	Leonard Lounge	Cookies and Math!	Cookies and Math!	Cookies and Math!	
	M103	Moore Method Set Theory **** (Kenny)	Moore Method Set Theory **** (Kenny)	Moore Method Set Theory **** (Kenny)	
	See class	<i>People</i> —a wooden sculpture assembly (George Hart, Leonard Lounge)	Zome Workshop (George Hart, Taylor 217)	Zome Workshop (George Hart, Taylor 217)	

Room key: A5, Arey 5; L302, Lovejoy 302; L303, Lovejoy 303; L413, Lovejoy 413; M103, Mudd 103; M405, Mudd 405.

Conflict-Full Schedules, Inc.