

BERKELEY MATH CIRCLE 1998-99
EVANS HALL, UC BERKELEY

I. ACADEMIC PROGRAM

Tentative Weekly Schedule¹

- September 13: *Inversion in the Plane. Part I*, Zvezdelina Stankova-Frenkel
Monthly Contest I - problem set
- September 20: *Combinatorics. Part I*, Paul Zeitz
- September 27: *How to Write Proofs in Mathematics. Problems*, Quan Lam
- October 4: *Can a Number be Approximately Rational*, Dmitry Fuchs
- October 11: *Linear Recursive Sequences*, Bjorn Poonen
Monthly Contest I - solutions due; Monthly Contest II - problem set
- October 18: *Inversion in the Plane. Part II*, Zvezdelina Stankova-Frenkel
- October 25: *Arithmetics. Part I*, Serganova/Givental
Monthly Contest I - awards
- November 1: *Arithmetics. Part II*, Givental/Serganova
- November 8: *Combinatorics. Part II*, Paul Zeitz
Monthly Contest II - solutions due; Monthly Contest III - problem set
- November 15: *Proofs. Part II*, Quan Lam
- November 22: *Cubic Equations*, Dmitry Fuchs
Monthly Contest II - awards
- November 29: Thanksgiving break
- December 6: *Continued Fractions (to be continued)*, Givental/Serganova
Monthly Contest III - solutions due; Monthly Contest IV - problem set
- December 13: *Continued Fractions. Part II*, Serganova/Givental
- December 20: Student BAMO/Presentations
Monthly Contest III - awards
- December 27: Christmas and New Year break

¹Instructors and topics for specific dates are subject to change.

- January 3: Christmas and New Year break
- January 10: *Plane Geometry. Part I*, John McCuan
Monthly Contest IV - solutions due; Monthly Contest V - problem set
- January 17: *Inequalities*, Quan Lam
- January 24: *Geometry of a Piece of Paper*, Dmitry Fuchs
Monthly Contest IV - awards
- January 31: *Probability*, Paul Zeitz
- February 7: *Infinity*, Bjorn Poonen
Monthly Contest V - solutions due; Monthly Contest VI - problem set
- February 14: *Plane Geometry. Part II*, John McCuan
- February 21: *Flexible Polyhedra*, Dmitry Fuchs
Monthly Contest V - awards
- February 28: *Fixed Point Theorem. Applications*, Quan Lam
- March 7: BAMO ceremony, guest speaker or Bjorn Poonen on *More Infinity*
Monthly Contest VI - solutions due; Monthly Contest VII - problem set
- March 14: *Geometric Constructions. Part I*, Serganova/Givental
- March 21: *Geometric Constructions. Part II*, Givental/Serganova
Monthly Contest VI - awards
- March 28: *Graph Theory*, Paul Zeitz
- April 3: Easter break
- April 11: *Geometry of Surfaces. Part I*, Givental/Serganova
Monthly Contest VII - solutions due; Monthly Contest VIII - problem set
- April 18: *Geometry of Surfaces. Part II*, Serganova/Givental
- April 25: *Multiplicative Functions. Part I*, Zvezdelina Stankova-Frenkel
Monthly Contest VII - awards
- May 2: *Stereographic Projections*, John McCuan
- May 9: *Games*, Bjorn Poonen
Monthly Contest VIII - solutions due
- May 16: *Multiplicative Functions. Part II*, Zvezdelina Stankova-Frenkel
- May 23: Student BAMO/Presentations
Monthly Contest VIII - awards; Grand Winner Awards

Note: The exact places for the February 14 and March 7 sessions will be announced later in the year.