


2012 Mathematical Olympiad Summer Program Schedule

| Sun Jun 3 | Mon Jun 4 | Tue Jun 5 | Wed Jun 6 | Thu Jun 7 | Fri Jun 8 | Sat Jun 9 |
|---|-----------|-----------------|---|--|--|--|
| <i>(red: W130)</i> <i>(green: W131)</i> <i>(blue: S241)</i> <i>(black: T139)</i> | | Students arrive | JI How to write IL Loci, construct PR Geom ineqs AP Enumeration | PR Induction AG Classic ineq 1 AP Sequences AM Euclidean algo | PS Pigeonhole PR Angle chasing AG Classic ineq 1 AP Stuff mod p^r | AG Classic ineq 2 IL Num theory 1 Mock IMO 1 |
| | | Students arrive | IL Loci, construct PM How to write PS Graph theory PR Geom ineqs | AM Finite diffs PR Induction AG Similarity AP Sequences | PR Angle chasing PS Pigeonhole AM Euclidean algo IL Projective geom | IL Num theory 1 AG Classic ineq 2 Mock IMO 1 |
| <i>(afternoon)</i> <i>(W129)</i> <i>(Othmer 110)</i> | | Students arrive | DM, JB Hwk rvw AY, GU Hwk rvw BG, CL Hwk rvw AZ, EO Shortlist | MOP Test 1 | AG Classic ineq 1 AM Finite diffs AP Combin sums AZ, DM Shortlist | |
| <i>(eve. seminar)</i> | | | | | PS Triangles | PR Gene drift |
| | | | Study time | Study time | Study time | |

| Sun Jun 10 | Mon Jun 11 | Tue Jun 12 | Wed Jun 13 | Thu Jun 14 | Fri Jun 15 | Sat Jun 16 |
|----------------|--|---|---|---|--|------------------------|
| | PR Geom ineqs ZF Num theory 2 CS Useful construct RL Graph theory | CS Triangles 1 PS Graph theory 1 AG Muirhead AM Polynomials | IL Num theory 3 AP Functional eqn CS Collinear/concur RL Inversion | MM Bijections IL Num theory 4 CS Geom configs RL Games | PS Graph theory 2 CS Collinear/concur MM Generat funct RL $[x]$ and $\{x\}$ | ELMO Mock IMO 2 |
| | ZF Num theory 2 PR Geom ineqs AG Count in 2 ways IL Combin geom | PS Graph theory 1 CS Useful construct MM Bijections RL Combin NT | AP Functional eqn IL Num theory 3 AM Polynomials PS Algeb combin | IL Num theory 4 MM Bijections PS Extrem combin ZF Algebra 1 | CS Triangles 2 PS Graph theory 2 AM Num theory 1 MM Generat funct | ELMO Mock IMO 2 |
| Team contest 1 | MOP Test 2 | AM Euclidean algo ZF Algebra AP Functional eqn AY, EO Shortlist | MOP Test 3 | ZF Algebra AM Euclidean algo AP Enumeration BG, PM Shortlist |  | |
| | | GC Mech design | | AP Box counting | AM NT knot invars | |
| Test review | Study time | Test review | Study time | Test review | | |

| Sun Jun 17 | Mon Jun 18 | Tue Jun 19 | Wed Jun 20 | Thu Jun 21 | Fri Jun 22 | Sat Jun 23 |
|-----------------------|---|--|--|---|---|------------------------|
| | YS Combin sums AP Enumeration AZ Smoothing RG Algeb tricks | MM Generat funct RL Combin geom AM Num theory 3 GC Invariants | RL Games EO Num theory 5 JN Stuff mod p^r ZF Geometry | GC Invariants JN Vectors MM Symm funct SG Trig geometry | SG Trig geometry RG Combinatorics JN Weights & coloring GC Smoothing | |
| | AP Enumeration YS Combin sums AM Num theory 2 JN Integer polyn | RL Combin geom MM Generat funct GC Invariants SG N.T. tricks | EO Num theory 5 RL Games MM Inversion SG Collinear/concur | JN Vectors GC Invariants RL Combin NT YS Cplx numbers | RG Combinatorics SG Trig geometry MM Projective geom RL Digits | |
| Team contest 2 | MOP Test 4 | YS Trig in algebra RG Quadratic eqs JN Integer polyn AZ, GU Shortlist | MOP Test 5 | RG Quadratic eqs YS Trig in algebra ZF Geometry EO, JB Shortlist | TSTST 1 | |
| RL Reciprocity | | YS Fock space | | JN Cat theory fast | | RG Chern-Simons |
| Test review | Study time | Test review | Study time | Test review | | |

| Sun Jun 24 | Mon Jun 25 | Tue Jun 26 | Wed Jun 27 | Thu Jun 28 | Fri Jun 29 | Sat Jun 30 |
|-------------------------|--|--|--|---|-----------------|------------|
| | ZF Geometry 5 CJ Counting GC Functional eqn RG Classical geom | IL Num theory 6 SG Geom lemmata RG Algeb tricks GC Functional eqn | CJ Recurrences PS Extrem combin IL Combin geom GC N.T. constr | IL Num theory 7 YS Sequences RG Geom transf GC Diophant eq | Students depart | |
| | CJ Counting ZF Geometry 5 PS Probab combin SG Geom lemmata | SG Geom lemmata IL Num theory 6 CJ Sums/products PS Probab combin | PS Extrem combin CJ Recurrences GC N.T. constr YS Special polyn | YS Sequences IL Num theory 7 CJ Diophant eq ZF Algebra 2 | Students depart | |
| TSTST 2 | RG Polynomials YS Smooth fudge EO Cplx numbers CL, PM Shortlist | TSTST 3 | YS Smooth fudge RG Polynomials CJ Recurrences AY, BG, DM Shrt | Beyond MOP | Students depart | |
| IL Tessellations | | | | | | |
| | Test review | Study time | Test review | Talent show | | |