

## Training for the Mathematical Olympiad in Maynooth University January 2015 - May 2015

The following is the programme for Olympiad training in Maynooth University, in the period from 17<sup>th</sup> January, 2015 to 2<sup>nd</sup> May, 2015, inclusive. The classes will be held from 10 a.m. to 1 p.m. on the listed Saturdays in various locations given below: Callan Hall (CH) and Physics Hall (PH), both near the entrance to the South Campus; and classhall MS2, on the top floor of Logic House, South Campus. In so far as possible, the non-advanced classes scheduled for CH/PH will take place on the indicated days, and will be cancelled only in the event of a major problem such as a severe, prolonged, winter storm; but the order in which topics are covered, and the topic providers, are subject to change. The provision of the advanced class depends on the number of "second time" participants, and it will be cancelled if too few people indicate their willingness to attend on a regular basis. Of course, no individual first - or second-timer should feel bound to attend every single class, particularly on mornings with heavy frost or snow.

The personnel involved in 2015 are: Dr S. Bechtluft-Sachs (SBS); Professor S. Buckley (SB); Dr P. Clifford (PC); Dr D. Malone (DM); Dr O. Mason (OM); Dr J. Murray (JM); Professor A. O'Farrell (AOF); Dr L. Pforte (LP); Dr A. Ralph (AR); Dr D. Redmond (DR) and, hopefully, some other volunteers from time to time.

Date	Venue	10:00-10.50	10:50-11.40	12.10-1.00
17/01/15	CH	Introduction (JM)	Induction (JM)	Induction (JM)
24/01/15	CH	Geometry (AOF)	Geometry (AOF)	Geometry (AOF)
	MS2	Advanced class (PC)	Advanced class (PC)	Advanced class (PC)
31/01/15	PH	Trigonometry (AOF)	Trigonometry (AOF)	Trigonometry (AOF)
	MS2	Advanced class (AR)	Advanced class (AR)	Advanced class (AR)
07/02/15	PH	Number Theory (DR)	Number Theory (DR)	Number Theory (DR)
	MS2	Advanced class (LP)	Advanced class (LP)	Advanced class (LP)
14/02/15	PH	Number Theory (SBS)	Number Theory (SBS)	Number Theory (SBS)
	MS2	Advanced class (DM)	Advanced class (DM)	Advanced class (DM)
28/02/15	PH	Combinatorics (PC)	Combinatorics (PC)	Combinatorics (PC)
	MS2	Advanced class (OM)	Advanced class (OM)	Advanced class (OM)
07/03/15	PH	Inequalities (SB)	Inequalities (SB)	Inequalities (SB)
	MS2	Advanced class (SBS)	Advanced class (SBS)	Advanced class (SBS)
14/03/15	PH	Training contest	Training contest	Training contest
21/03/15	PH	Inequalities (SB)	Complex Numbers (SB)	Complex Numbers (SB)
	MS2	Advanced class (AOF)	Advanced class (AOF)	Advanced class (AOF)
11/04/15	PH	Functional Eqns (DR)	Functional Eqns (DR)	Functional Eqns (DR)
	MS2	Advanced class (DM)	Advanced class (DM)	Advanced class (DM)
18/04/15	PH	Algebra (JM)	Algebra (JM)	Algebra (JM)
	MS2	Advanced class (LP)	Advanced class (LP)	Advanced class (LP)
25/04/15	MS2	IrMO	IrMO	IrMO
02/05/15	MS2	Common class (SBS)	Common class (SBS)	Common class (SBS)

The 28<sup>th</sup> Irish Mathematical Olympiad will take place on the 25<sup>th</sup> April 2015, from 10.00 to 1.00 and from 14.00 to 17.00 in Logic House, Maynooth University, and in other venues in Cork, Dublin, Galway and Limerick. The 56<sup>th</sup> International Mathematical Olympiad will take place in Chiang Mai, Thailand 4<sup>th</sup> - 16<sup>th</sup> July 2015.