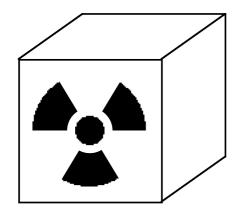
LIVERPOOL PHYSICS OLYMPICS





Rank

Hyper Cube

Do not write below line

Aim	To locate the positions of two different materials inside a cube using the emission of a γ -ray source at its centre.			
Materials	1 sealed γ–ray source1 cube comprising1 Geiger–Müller detector			
Method	Use the activity measured by a Geiger–Müller detector outside the cube to determine the location of the paper and brass sub-cubes. Note that, in addition to paper and brass, the cube also contains aluminium and perspex sub-cubes.			
Conditions	The cube must not be disassembled or tampered with in any way.			
Time limit	25 minutes			
Ranking	The ranking order will be determined by the time taken to correctly locate the sub-cubes, with a 5 minute penalty for each incorrect attempt.			
Team	Result	Paper	Brass	