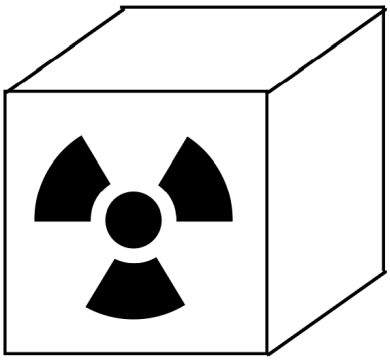

2018

Gamma Cube

Aim	To locate the position of a radioactive source inside a cube using the emission of γ-rays from the source.
Materials	1 sealed γ-ray source 1 cube comprising up to 4 types of sub-cube 1 NaI detector and Prospect software
Method	Use the activity measured by a NaI(Tl) detector outside the cube to determine the location of the source. Note that the large cube can contain aluminium, perspex, brass and blank (empty) 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-cube, with a 5 minute penalty for each incorrect attempt.

Team ***Result***

Do not write below this line

Rank