IPh 42
International
Physics Olympiad
Bangkok Thailand, 2011

ANSWER SHEET

Part 1. Calibration

$\alpha =$

$C_s =$

Part 2. Determination of geometrical shape of a parallel plate capacitor

PATTERN I: The expected graph of C versus the positions of the upper plate

PATTERN II: The expected graph of C versus the positions of the upper plate

PATTERN III: The expected graph of C versus the positions of the upper plate

From the experiment, the geometrical shape of the parallel plate capacitor is

☐ Pattern I   ☐ Pattern II   ☐ Pattern III

$b =$

$w =$

Part 3. Resolution of digital calipers

The smallest distance that can be measured at $f \approx 5$ kHz is

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