UM-SJTU JOINT INSTITUTE PHYSICS LABORATORY DATA SHEET (EXERCISE 2)

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Group: <u>14</u>

Date: <u>7/19</u>

NOTICE. Please remember to show the data sheet to your instructor before leaving the laboratory. The data sheet will not be accepted if the data are recorded with a pencil or modified with a correction fluid/tape. If a mistake is made in recording a datum item, cancel the wrong value by drawing a fine line through it, record the correct value legibly, and ask your instructor to confirm the correction. Please remember to take a record of the precision of the instruments used. You are required to hand in the original data with your lab report, so please keep the data sheet properly.

	d	istance x [mm] ± <u>0.5</u>	[<u>mm</u>]	
$x_{A,1}$	37	$x_{ m B,1}$	78ء	S_1	121
$x_{A,2}$	58	$x_{\mathrm{B,2}}$	178	S_2	120
$x_{A,3}$	57	$x_{\mathrm{B,3}}$	Π8	S_3	171

Table 1. Distance measurement data.

tin	ne t [S] ± <u>o.ol</u> [S]
t_1	6-13 5.67
t_2	5.71
t_3	5.74
t_4	5.74
t_5	5.71
t_6	5.74

Table 2. Time measurement data.

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7/19

diameter d [mm] $\pm \underline{v.oo}$ [mm]				
d_1	1-99	d_6	1.99	
d_2	1,99	d_7	2.00	
d_3	2.00	d_8	1.99	
d_4	1.99	d_9	1-99	
d_5	1,99	d_{10}	1.99	

Table 3. Measurement data for the diameters of the balls.

dian	diameter D [mm] \pm 0.02 [mm]					
D_1	62 82 63.08					
D_2	63.00					
D_3	63.12					
D_4	63.10					
D_5	63.12					
D_6	63.06					

Table 4. Measurement data for the inner diameter of the flask.

U-955 0.0005
density of the castor oil $\rho_1^{\checkmark}[9/c_{n}^{3}] \pm \frac{1}{2}$
1.317
mass of 40 metal balls $m'[\underline{9}\underline{9}] \pm \underline{v \cdot vv}[\underline{9}]$
28.2 0.1
temperature in the lab T^{\vee} $\pm \underline{\qquad}$ $\underline{\qquad}$
G.31
acceleration due to gravity in the lab g' $[n/s]$

Table 5. Values of other physical quantities.

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