UM-SJTU JOINT INSTITUTE PHYSICS LABORATORY DATA SHEET (EXERCISE 3)

Name:	Student ID:
Name:	Student ID:
Group:	Date:

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.

spring 1 [] ± []	spring 2 [] ± []	series []± []
L_0	$\mid L_0 \mid$	$\mid L_0 \mid$
L_1	$ L_1 $	L_1
L_2	$\mid L_2 \mid$	$\mid L_2 \mid$
L_3	L_3	L_3
L_4	$\mid L_4 \mid$	$\mid L_4 \mid$
L_5	$\mid L_5 \mid$	$\mid L_5 \mid$
L_6	$\mid L_6 \mid$	$ L_6 $

Table 1. Spring constant measurement data.

Instructor's	signature:	

ten periods [] ± []		
horizontal	incline 1	incline 2
m_1	$\parallel m_1 \parallel$	$\parallel m_1 \parallel$
m_2	$\mid m_2 \mid$	$\parallel m_2 \parallel$
m_3	$ m_3 $	$\mid\mid m_3\mid$
$ \mid m_4 \mid $	$\parallel m_4 \parallel$	$\parallel m_4 \parallel$
m_5	$\mid m_5 \mid$	$\parallel m_5 \parallel$
$ m_6 $	$\mid\mid m_6\mid$	$\parallel m_6 \parallel$

Table 2. Measurement data for the T vs. M relation.

A	[] ± []	ten periods $[_] \pm ___ [_]$
1		
2		
3		
4		
5		
6		

Table 3. Data for the T vs. A relation.

A [] ± []	$\Delta t [_] \pm __[_]$
1	
2	
3	
4	
5	
6	
$x_{\text{in}} = 1$	$x_{\text{out}} [\underline{\hspace{0.5cm}}] \pm \underline{\hspace{0.5cm}} [\underline{\hspace{0.5cm}}]$

Table 4. Data for the v_{max}^2 vs. A^2 relation.

m	[] ± []
1	
2	
3	
4	
5	
6	

Table 5. Weight measurement data.

object with I-shape m_{obj} [] \pm []
object with U-shape $m_{\rm obj}$ [] \pm []
mass of spring 1 $m_{\rm spr1}$ [] \pm []
mass of spring 2 $m_{\rm spr2}$ [] \pm []
equivalent mass $M_0 = m_{\text{obj}} + \frac{1}{3}m_{\text{spr}1} + \frac{1}{3}m_{\text{spr}2}$ []

Table 6. Mass measurement data.