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 $[_]$ \pm $__$ $[_]$	spring $2 \begin{bmatrix} \underline{} \end{bmatrix} \pm \underline{} \begin{bmatrix} \underline{} \end{bmatrix}$	series []± []
L_0	$\mid L_0 \mid$	$ L_0 $
L_1	L_1	L_1
L_2	$ L_2 $	L_2
L_3	L_3	L_3
L_4	L_4	L_4
L_5	$\mid L_5 \mid$	L_5
L_6	L_6	L_6

Table 1. Spring constant measurement data.

Instructor's signature:	
Instructor's signature:	

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

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	
$x_{\text{in}} = 1$	$x_{\text{out}} [_] \pm ___[_]$

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 $m_{\rm obj}$ [] \pm []
object with U-shape $m_{\rm obj}$ [] \pm []	
mass of s	prings 1 & 2 $m_{\rm spr1\&2}$ [] \pm []
equival	ent mass $M_0 = m_{\text{obj}} + \frac{1}{3}m_{\text{spr}1\&2}$ []
I-shape	
U-shape	

Table 6. Mass measurement data.