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 [__] ± ____ [__]	
L_0		L_0	
L_1		L_1	
L_2		L_2	
L_3		L_3	
L_4		L_4	
L_5		L_5	
L_6		L_6	

Table 1. Spring constant measurement data.

Instructor's signature: _____

ten periods [__] ± ____ [__]			
horizontal		inclined	
m_1		m_1	
m_2		m_2	
m_3		m_3	
m_4		m_4	
m_5		m_5	
m_6		m_6	

Table 2. Measurement data for the T^2 vs. M_i relation.

A [__] ± ____ [__]		ten periods [__] ± ____ [__]
1		
2		
3		
4		
5		
6		

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

A [__] ± ____ [__]	Δt [__] ± ____ [__]
1	
2	
3	
4	
5	
6	
x_{in} [__] ± ____ [__]	x_{out} [__] ± ____ [__]

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

Instructor's signature: _____

m [__] ± ____ [__]	
1	
2	
3	
4	
5	
6	

Table 5. Weight measurement data.

object with I-shape m_{obj} [__] ± _____ [__]	
object with U-shape m_{obj} [__] ± _____ [__]	
mass of springs 1 & 2 $m_{\text{spr1\&2}}$ [__] ± _____ [__]	
total mass $m_{\text{obj}} + \frac{1}{3}m_{\text{spr1\&2}}$ [__]	
I-shape	
U-shape	

Table 6. Mass measurement data.

Instructor's signature: _____