UM-SJTU JOINT INSTITUTE PHYSICS LABORATORY DATA SHEET (EXERCISE 1)

Name:							Student ID:							
Group:							Date:							
NOTICE. Please remember not be accepted if the data a a datum item, cancel the w instructor to confirm the cor You are required to hand in	re r rong rect	ecord g valion.	ded ue l Ple	with by d ase r	pencil or rawing a remembe	or modifi a fine lin r to take	ed by correct e through it a record of	tion fluid/t t, record th the precisi	ape. ne comof	If a marrect with the in	nistak value nstrur	e is ma legibly nents i	ade in re y, and a	cording
Calliper						Electronic balance				Timer				
Resolution		Camper			Diccironic barance				111101					
Relative uncertaint	5 7						/							
Та	ble	 e 1.	P	reci	sion o	f the r	neasuren	nent inst	trun	nents	S.			
					1		2		3			4		
Disk Ø [±		[
$\text{Hoop } \emptyset_1$	±	:												
$\operatorname{Hoop} \mathcal{O}_2 [$	<u>±</u>		[
Cylinder A Ø	土		[
Cylinder B Ø	士													
Cone pulley Ø	土	:												
Hole (1) d	士											/		
Hole ② d [<u>±</u>		[]									
Hole (3) d	士		[
Hole (4) d [土		[
Table 2. Calliper media table 4. The distance and the	ano	ce o	of t	he	hole t	o the	rotation	center s	shou	ld b	e m	easu	red as	
D. 1 []			г	٦	1			TT -	1	, r	1			
LJ	<u>+</u> _		<u> </u>	ļ_				Hoop [<u> </u>	_			
v [—]	<u> </u>		<u> </u>	ļ			Cylir	nder B []	± [_				
Weight [] =	<u> </u>		_											
				Tal	ble 3.	Mass	measurer	nents.						
Seat number:						_ I	nstructor	's signat	ture	:				

Empty turntable		De	ecelerati	on		Acceleration						
	k	1	2	3	4	k	1	2	3	4		
	t []					t []						
	k	5	6	7	8	k	5	6	7	8		
	t []					t []						
With disk		De	ecelerati			Acceleration						
	k	1	2	3	4	k	1	2	3	4		
	t []					t []						
	k	5	6	7	8	k	5	6	7	8		
	t []					t []						
With hoop		D_{ϵ}	ecelerati	on		Acceleration						
	k	1	2	3	4	k	1	2	3	4		
	$t [__]$					$\mid t \mid \underline{\hspace{1cm}} \mid$						
	k	5	6	7	8	k	5	6	7	8		
	t []					$\mid t \mid \underline{\hspace{1cm}} \mid$						
Cylinder		$D\epsilon$	ecelerati	on		Acceleration						
A in hole ①, B in ②	k	1	2	3	4	k	1	2	3	4		
	t []					$\mid t \mid \underline{\hspace{1cm}} \mid$						
	k	5	6	7	8	k	5	6	7	8		
	t []					$\mid t \mid \underline{\hspace{1cm}} \mid$						
Cylinder A in hole ③, B in ④		$D\epsilon$	ecelerati	on		Acceleration						
	k	1	2	3	4	k	1	2	3	4		
	t []					t []						
	k	5	6	7	8	k	5	6	7	8		
	t []					t []						

Table 4. Time measurements. The chosen hole 1 and hole 2 should be a symmetric pair, and hole 3 and hole 4 should be another symmetric pair.