

ETH zül	rich		hes Praktikum 「H Zürich		Physics Lab		
Name 1			. – – – – – –	Datum:			
Name 2	Platz-Nr	Platz-Nr:					
04 - Trans	verse Oscil	lation of a St	ring				
Driving frequency	$ u = \dots $	Mass per	unit Length μ =	=			
Lever Arm Ratio	$\frac{\text{force } Z}{\text{weight } G} = 2:1$						
Precision of	the Micromet	er Screw Readi	ng				
Person 1: $a = \dots$							
Person 2: $a = \dots$							
<a $>$ (Person 1) =			<a>(Person	$2)=\ldots\ldots$			
Are the mean val	ues of the amplitu	ide compatible?					
Resonance cu	ırve						
$l = \dots \dots$							
mass m	force Z	amplitude A	mass m	force Z	amplitude A		

Graphical representation: $A = f(\sqrt{Z})!$

Force Z at resonance for variable string lengths l

l [cm]	m	Z	ν_1	l [cm]	m	Z	ν_1
36				46			
38				48			
40				50			
42				52			
44				54			

Graphical representation: $Z = f(l^2)!$

 $<\nu_1>=\ldots\ldots\ldots$