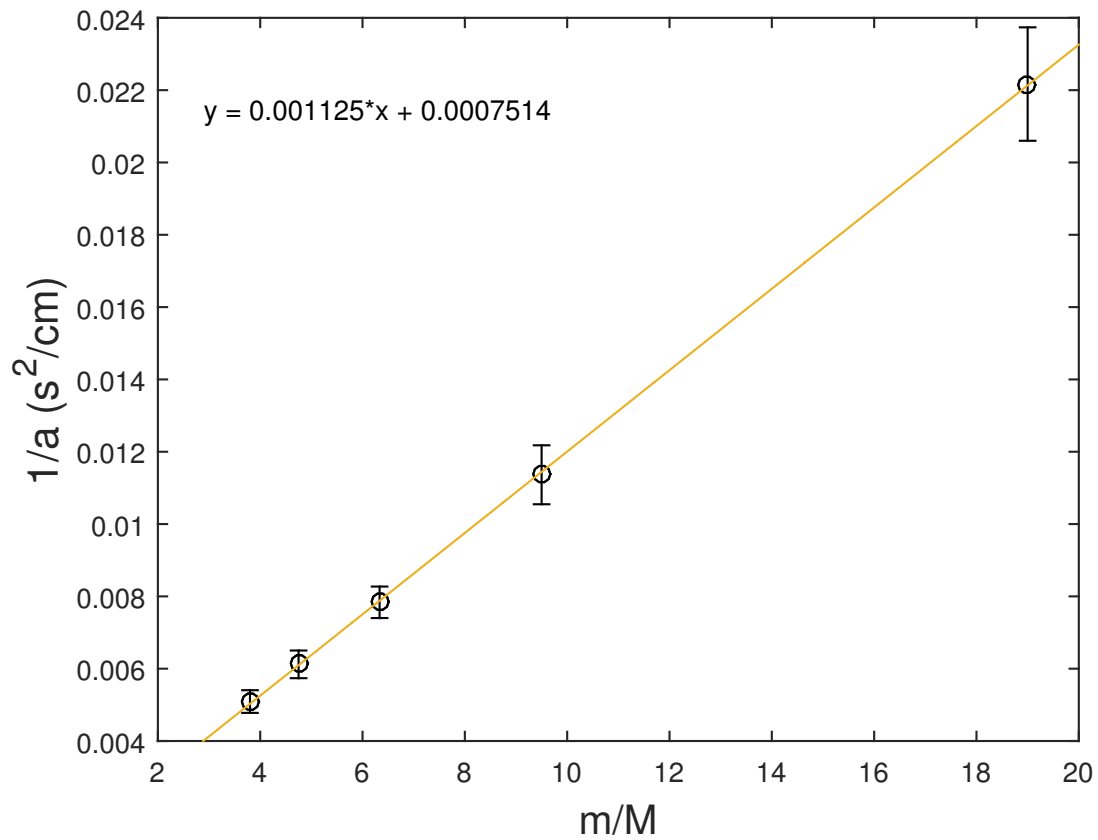


Experiments with a linear air track: Sample Results



S#	m	M	Average acceleration in each trial: a_{avg}					a_{avg}^{mean}	m/M
			Trial 1	Trial 2	Trial 3	Trial 4	Trial 5		
1	190	10	45 ± 2	45 ± 2	46 ± 2	45 ± 2	45 ± 1	45 ± 3	19
2	190	20	88 ± 5	88 ± 5	88 ± 4	89 ± 4	88 ± 4	88 ± 6	9.50
3	190	30	127 ± 5	128 ± 5	128 ± 5	127 ± 5	129 ± 7	128 ± 7	6.33
4	190	40	163 ± 9	164 ± 8	160 ± 8	$160 \pm U$	167 ± 8	$160 \pm U$	4.75
5	190	50	$198 \pm U$	$197 \pm U$	$196 \pm U$	$200 \pm U$	$192 \pm U$	$196 \pm U$	3.80

$U = 1 \times 10^1$