

# ① Pitch Frequency test

- set up lin pots on all 4 shocks
- Accelerate & brake in a straight line
  - ↳ Brake to a full stop, then roll forward slightly and stop
  - ↳ then accelerate again
- can do on dirt or gravel

## Result

determine pitch frequency of car  
using fourier/PSD analysis

## ② Roll Frequency Test

- Drive in a wiggle
  - ↳ same in pots setup as before
- dirt or asphalt

### Result

Determine roll frequency of car

## ③ Heave frequency test — Potentially change?

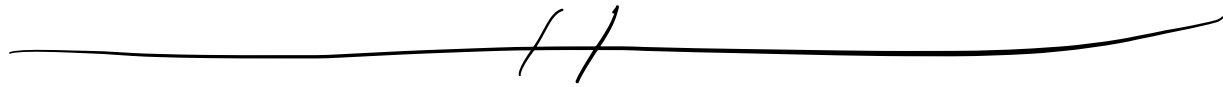
- with in pots, Drop the car from a height
- completely stationary test — no throttle required
- Ideally all 4 wheels hit ground at the same time

### Result

Heave Frequency

## ④ Track driving

- Drive around track for a couple of laps w/ linfots
- Do PSD to determine power of each frequency



## Analysis

- Correlate model w/ frequencies found by sweeping  $K \Delta 2$