



Kinematics Report

Simulation Author: Robert Horvath

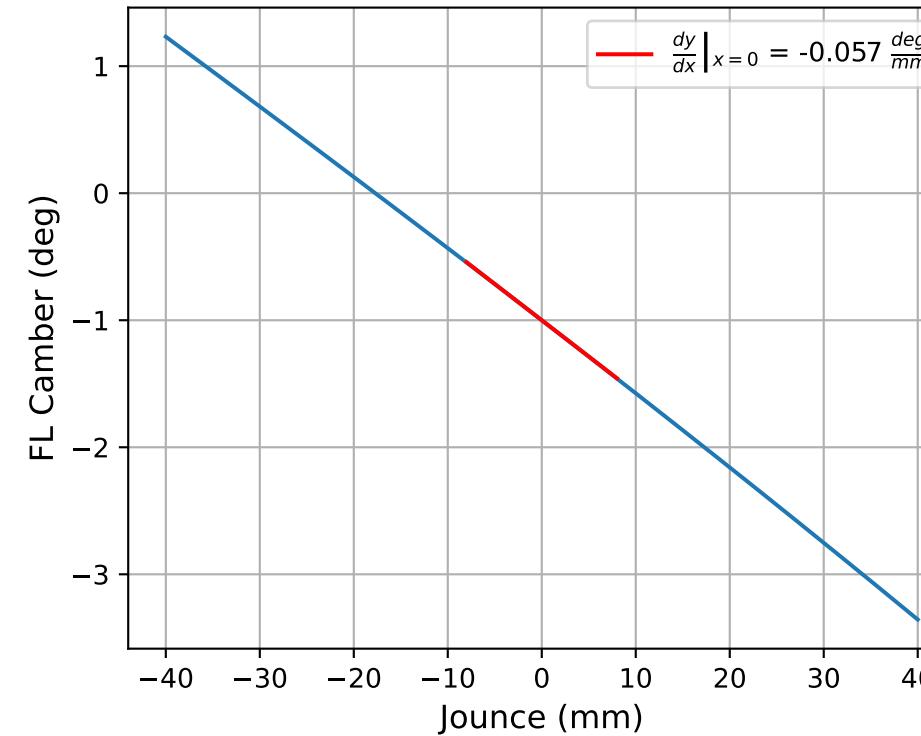
Generated By: Robert (roberthorvath5@gmail.com)

Date: 2025-06-07, 01:01 PM PDT

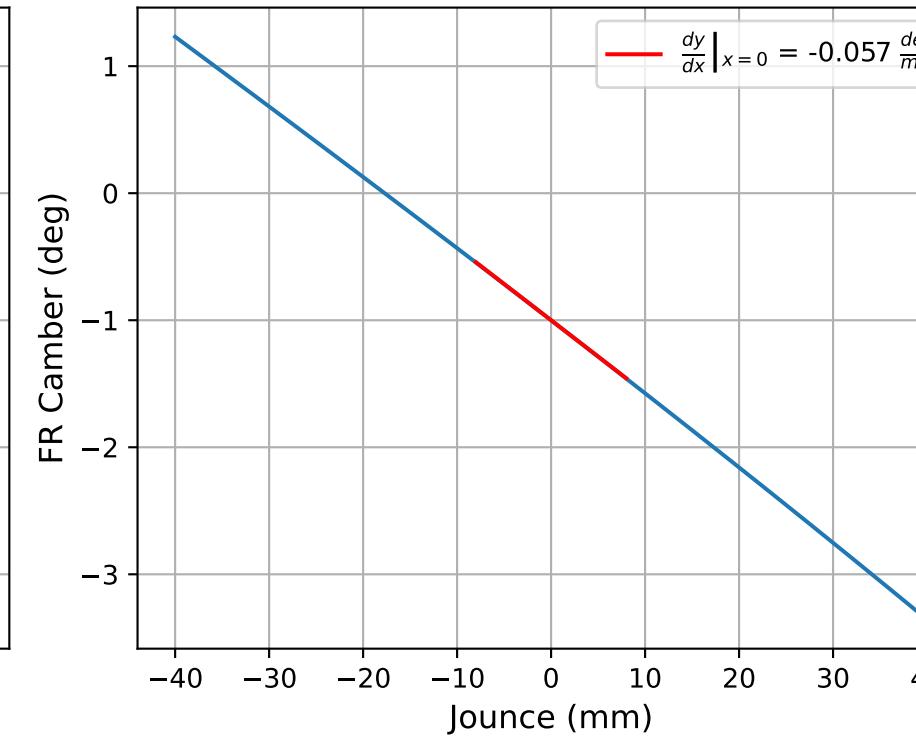
Note 1: Linear fits are tangent lines about $x = 0$ (NOT fits over the entire range)

Note 2: Cubic fits are performed over the entire visible domain (fits over the entire range)

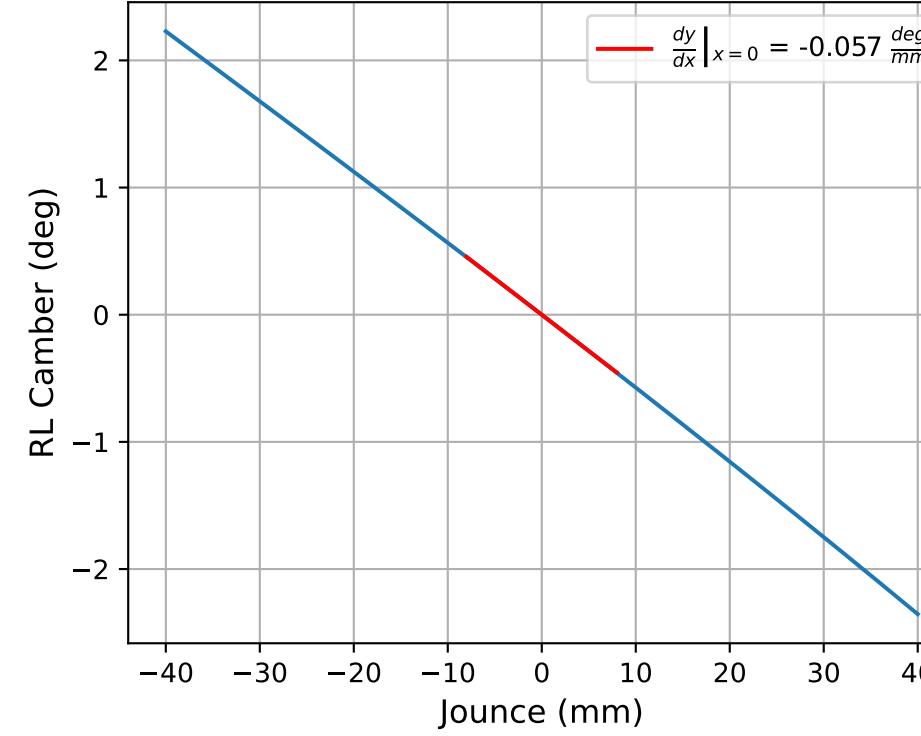
FL Bump Camber



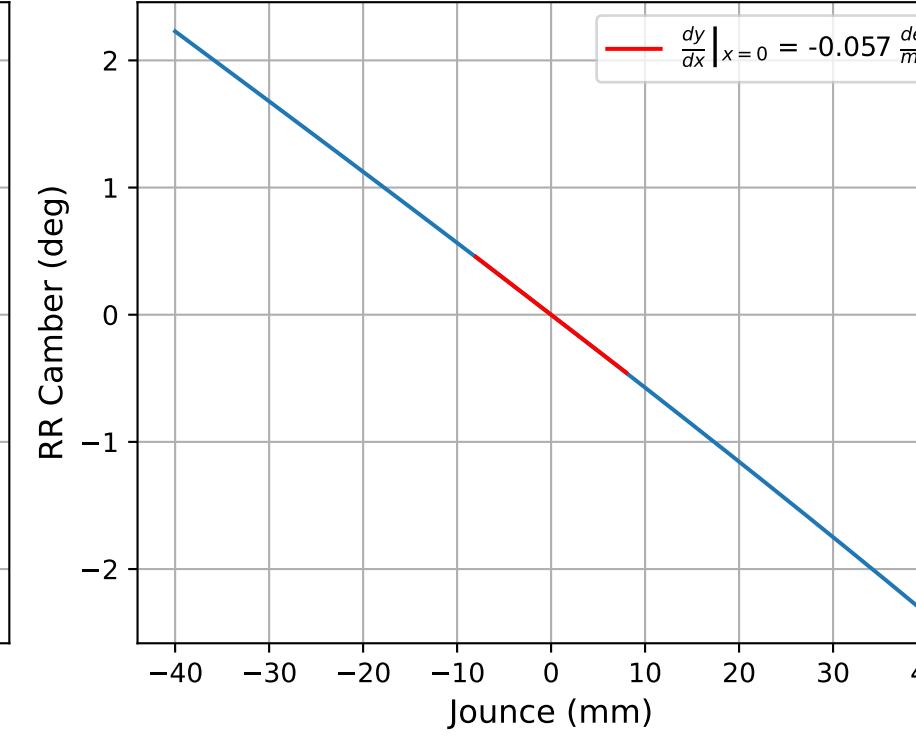
FR Bump Camber



RL Bump Camber



RR Bump Camber

**Linear Fit**

$$f(x) = a_1x + a_0$$

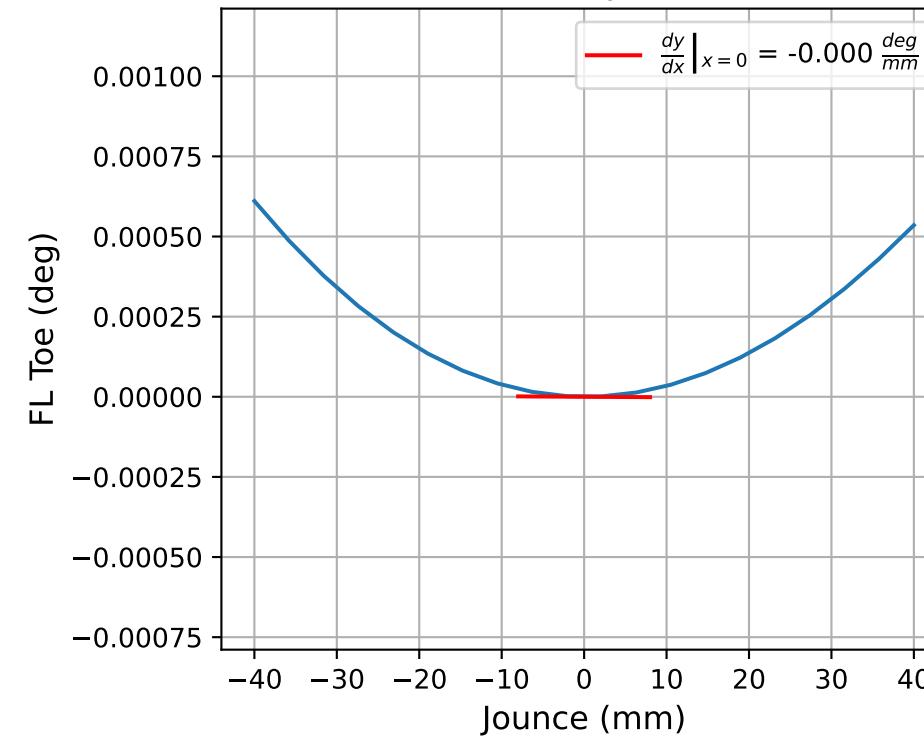
FL	$f(x) = -0.057x + -1.0$
FR	$f(x) = -0.057x + -1.0$
RL	$f(x) = -0.057x + 0.0$
RR	$f(x) = -0.057x + 0.0$

Cubic Fit

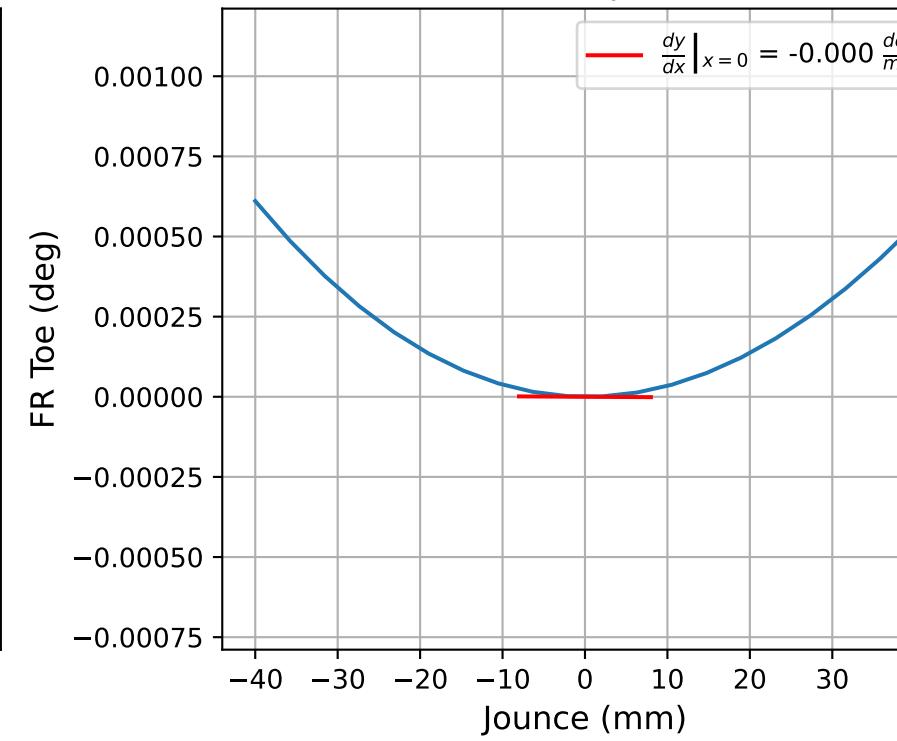
$$f(x) = a_3x^3 + a_2x^2 + a_1x + a_0$$

FL	$f(x) = -0.0x^3 + -0.0x^2 + -0.057x + -1.0$
FR	$f(x) = -0.0x^3 + -0.0x^2 + -0.057x + -1.0$
RL	$f(x) = -0.0x^3 + -0.0x^2 + -0.057x + 0.0$
RR	$f(x) = -0.0x^3 + -0.0x^2 + -0.057x + 0.0$

FL Bump Toe



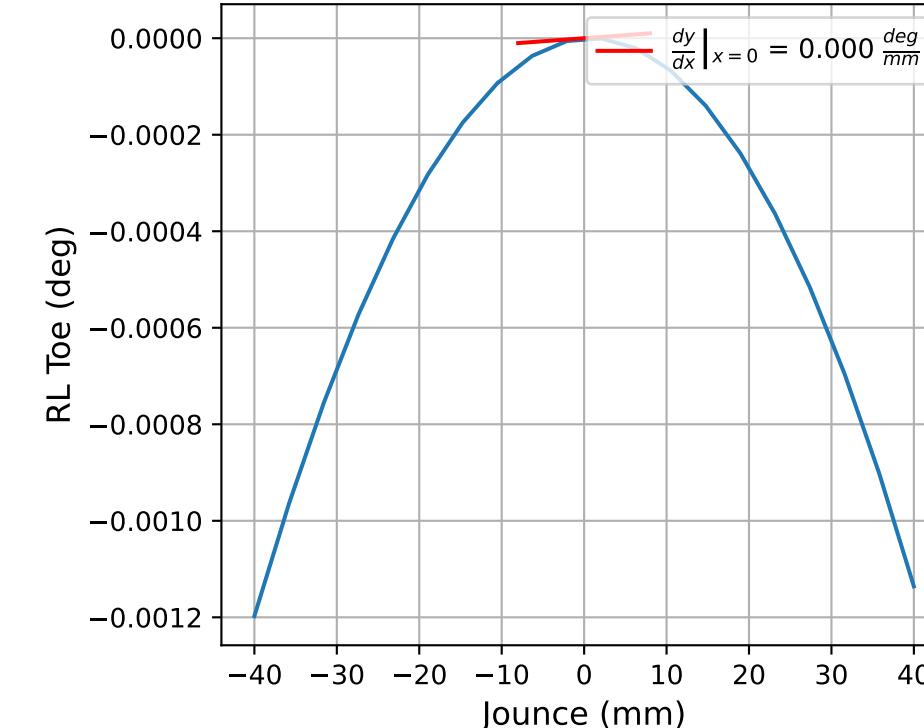
FR Bump Toe

**Linear Fit**

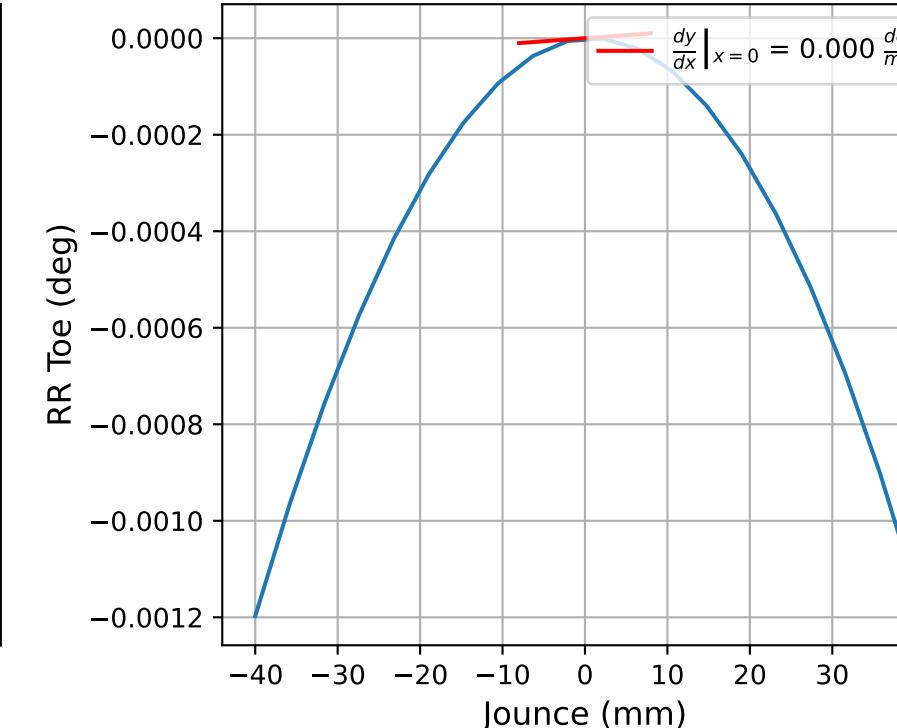
$$f(x) = a_1x + a_0$$

FL	$f(x) = -0.0x + -0.0$
FR	$f(x) = -0.0x + -0.0$
RL	$f(x) = 0.0x + 0.0$
RR	$f(x) = 0.0x + 0.0$

RL Bump Toe



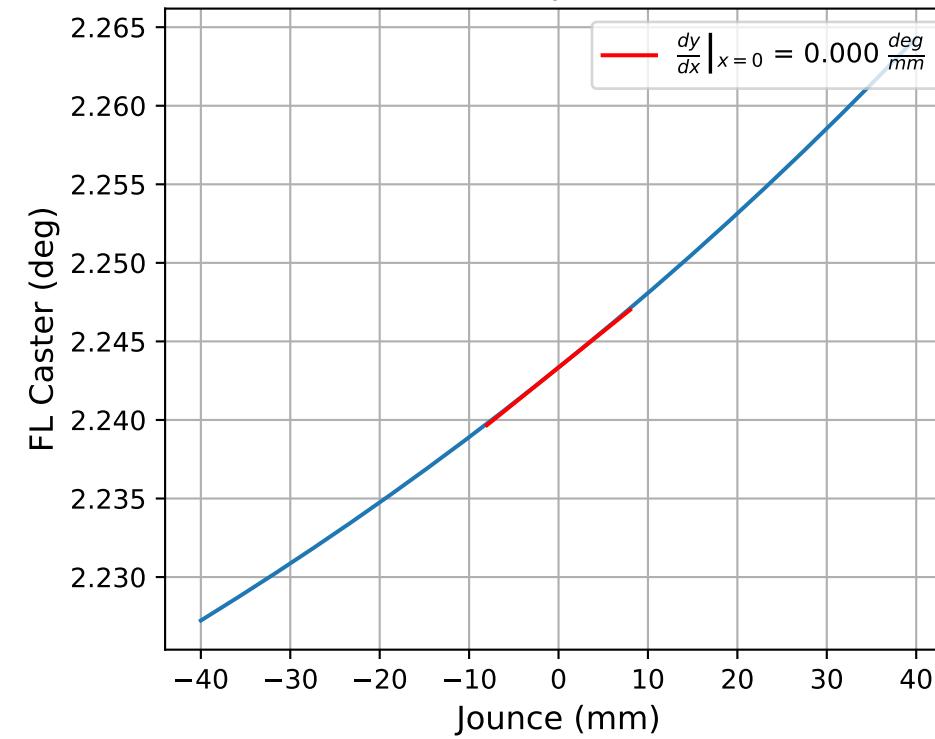
RR Bump Toe

**Cubic Fit**

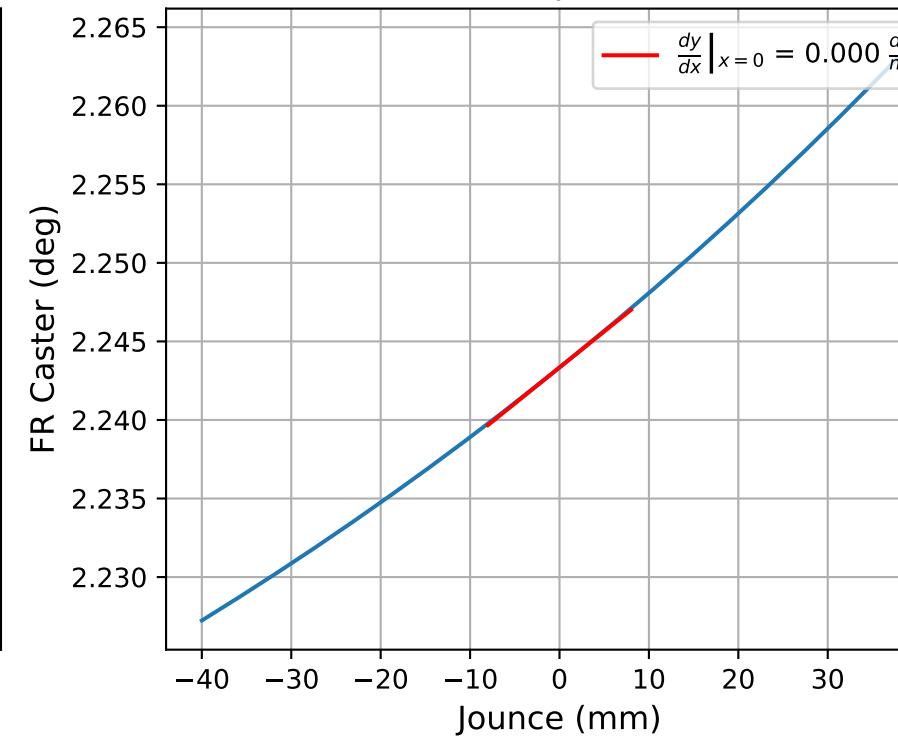
$$f(x) = a_3x^3 + a_2x^2 + a_1x + a_0$$

FL	$f(x) = -0.0x^3 + 0.0x^2 + -0.0x + -0.0$
FR	$f(x) = -0.0x^3 + 0.0x^2 + -0.0x + -0.0$
RL	$f(x) = -0.0x^3 + -0.0x^2 + 0.0x + 0.0$
RR	$f(x) = -0.0x^3 + -0.0x^2 + 0.0x + 0.0$

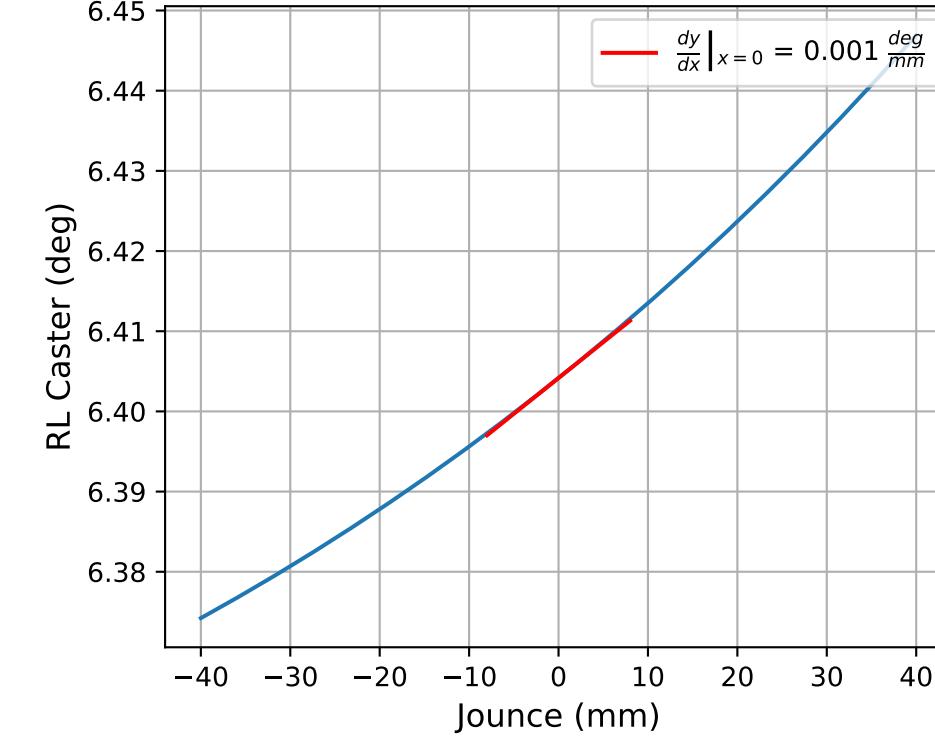
FL Bump Caster



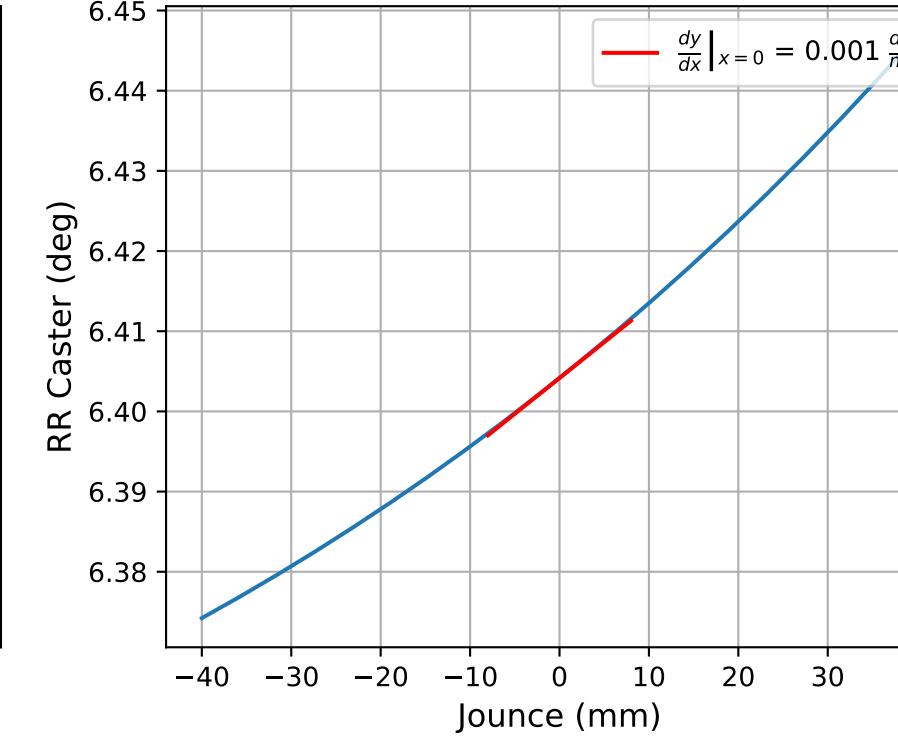
FR Bump Caster



RL Bump Caster



RR Bump Caster

**Linear Fit**

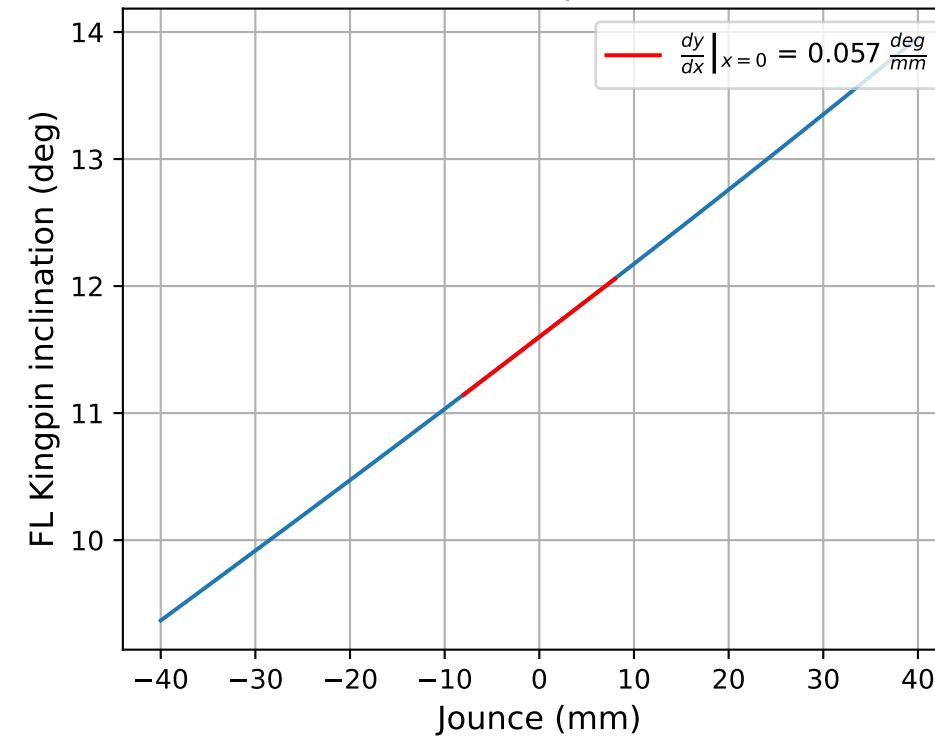
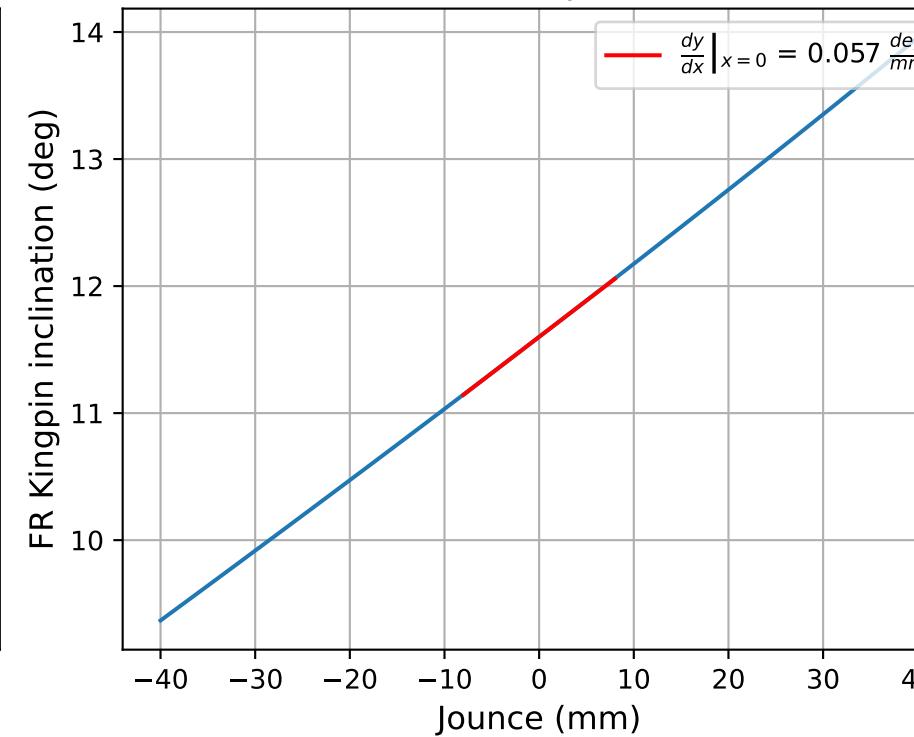
$$f(x) = a_1x + a_0$$

FL	$f(x) = 0.0x + 2.243$
FR	$f(x) = 0.0x + 2.243$
RL	$f(x) = 0.001x + 6.404$
RR	$f(x) = 0.001x + 6.404$

Cubic Fit

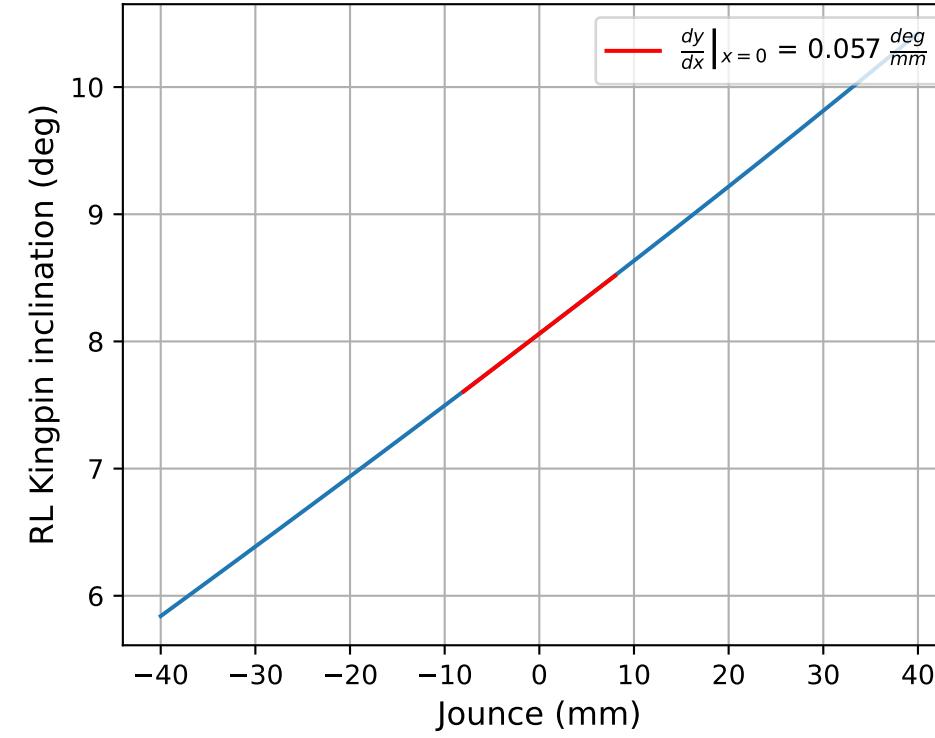
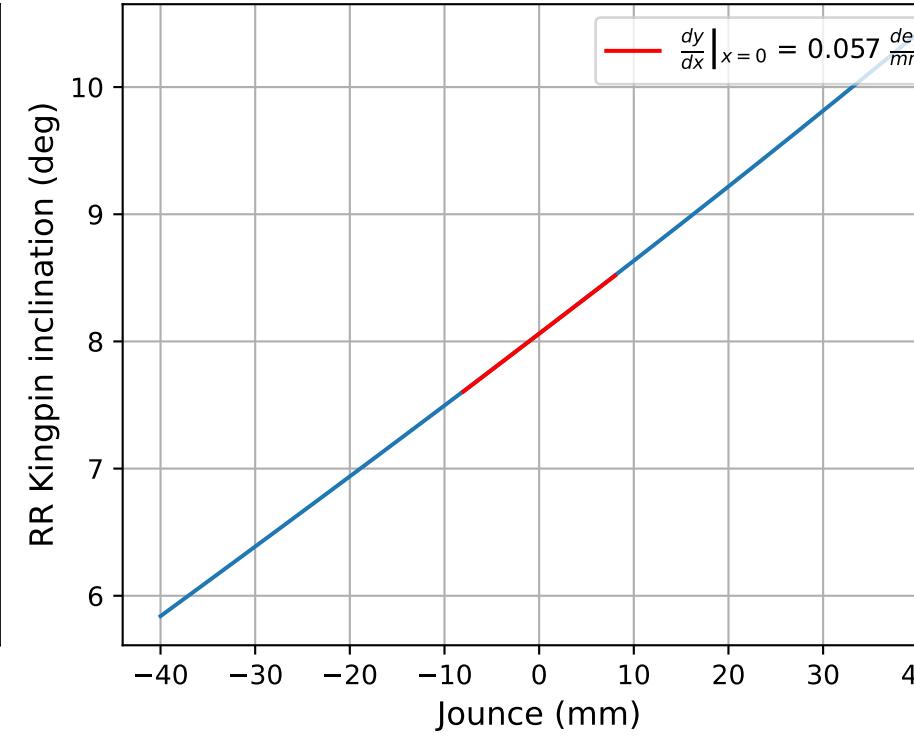
$$f(x) = a_3x^3 + a_2x^2 + a_1x + a_0$$

FL	$f(x) = 0.0x^3 + 0.0x^2 + 0.0x + 2.243$
FR	$f(x) = 0.0x^3 + 0.0x^2 + 0.0x + 2.243$
RL	$f(x) = 0.0x^3 + 0.0x^2 + 0.001x + 6.404$
RR	$f(x) = 0.0x^3 + 0.0x^2 + 0.001x + 6.404$

FL Bump KPI**FR Bump KPI****Linear Fit**

$$f(x) = a_1x + a_0$$

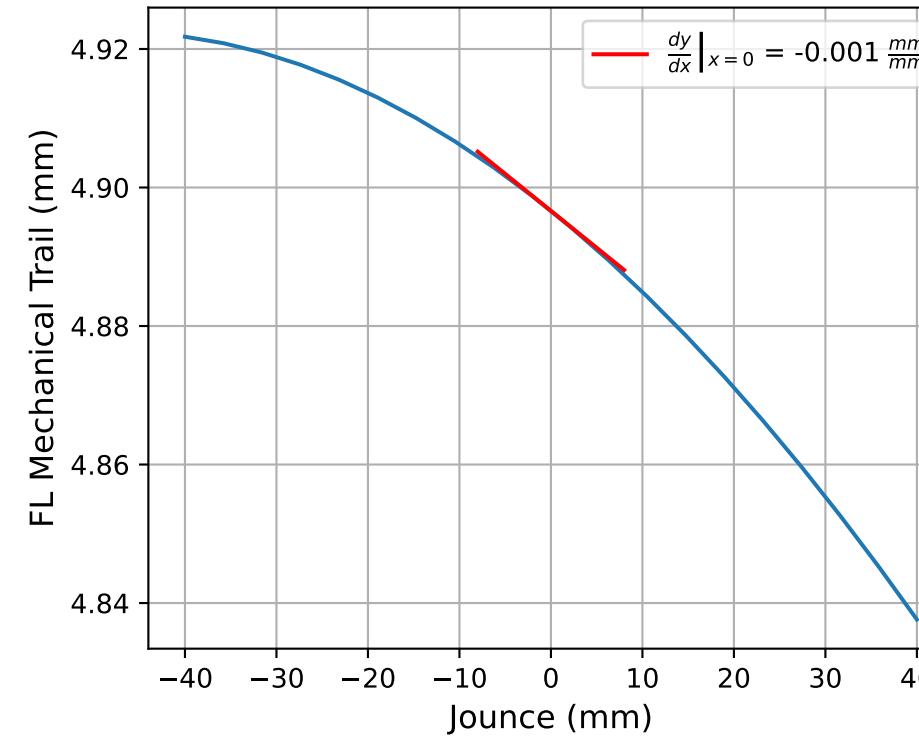
FL	$f(x) = 0.057x + 11.6$
FR	$f(x) = 0.057x + 11.6$
RL	$f(x) = 0.057x + 8.061$
RR	$f(x) = 0.057x + 8.061$

RL Bump KPI**RR Bump KPI****Cubic Fit**

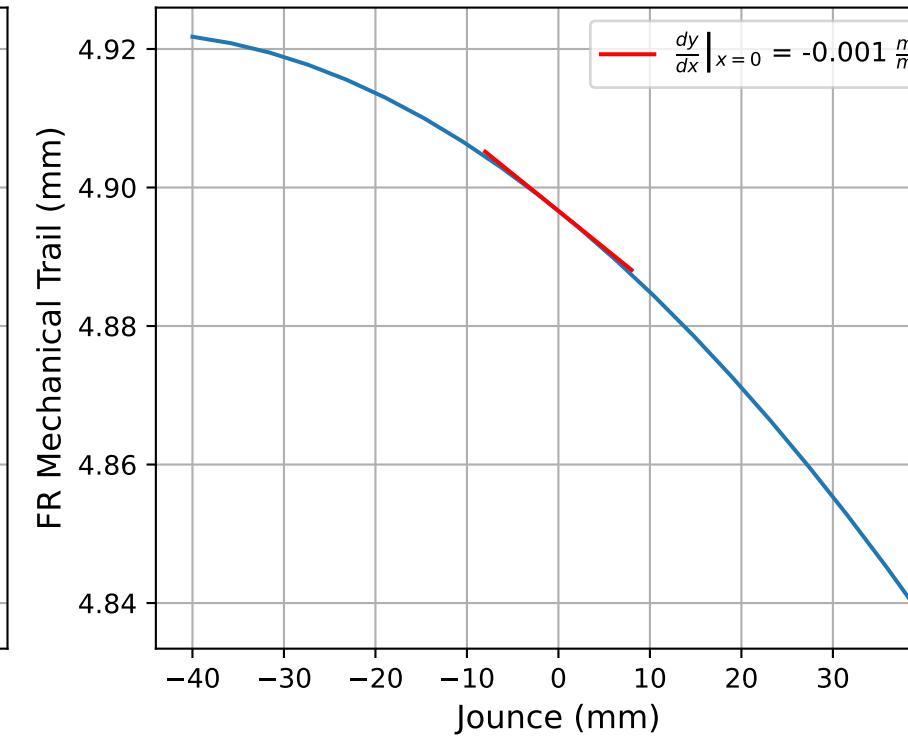
$$f(x) = a_3x^3 + a_2x^2 + a_1x + a_0$$

FL	$f(x) = 0.0x^3 + 0.0x^2 + 0.057x + 11.6$
FR	$f(x) = 0.0x^3 + 0.0x^2 + 0.057x + 11.6$
RL	$f(x) = 0.0x^3 + 0.0x^2 + 0.057x + 8.061$
RR	$f(x) = 0.0x^3 + 0.0x^2 + 0.057x + 8.061$

FL Bump Mechanical Trail



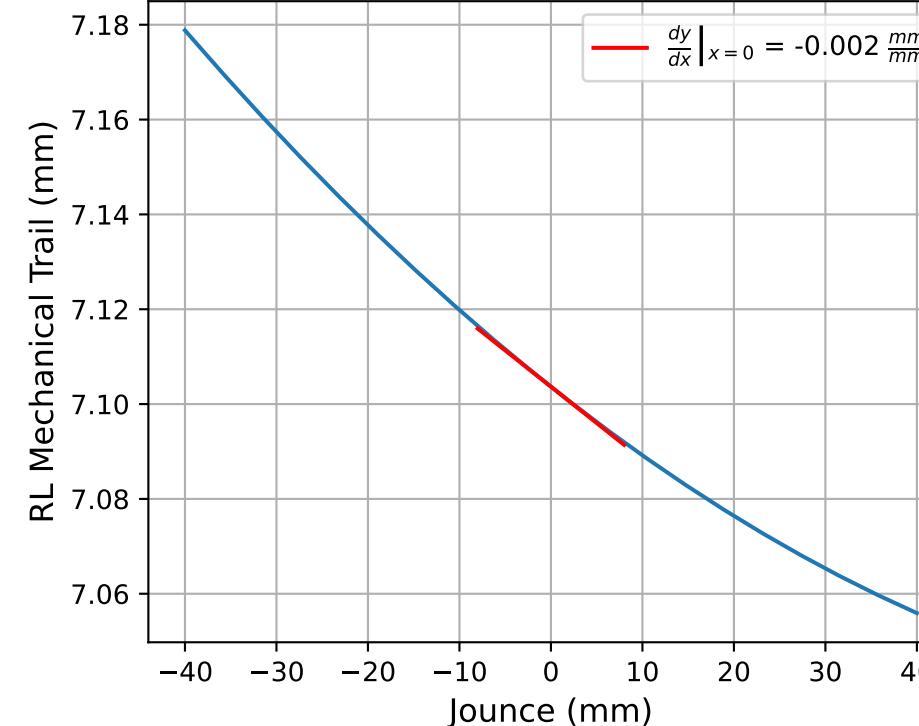
FR Bump Mechanical Trail

**Linear Fit**

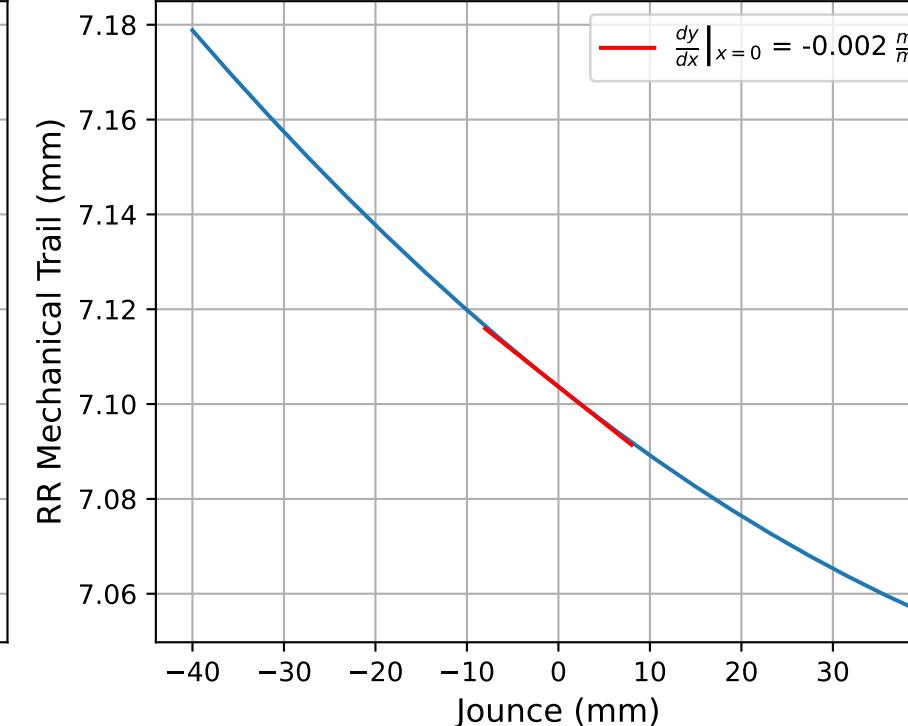
$$f(x) = a_1 x + a_0$$

FL	$f(x) = -0.001x + 4.897$
FR	$f(x) = -0.001x + 4.897$
RL	$f(x) = -0.002x + 7.104$
RR	$f(x) = -0.002x + 7.104$

RL Bump Mechanical Trail



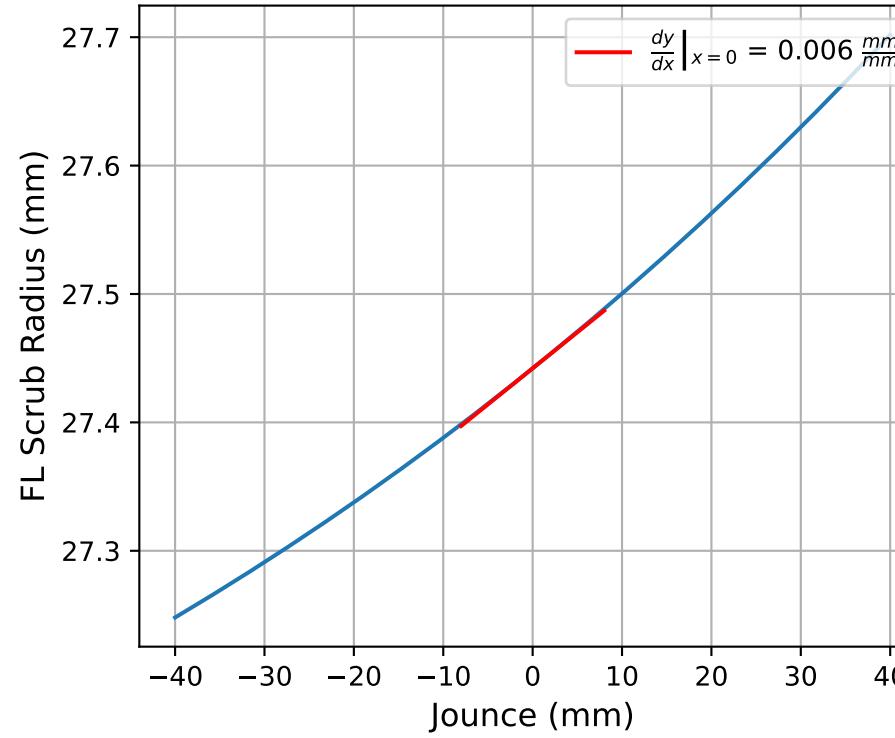
RR Bump Mechanical Trail

**Cubic Fit**

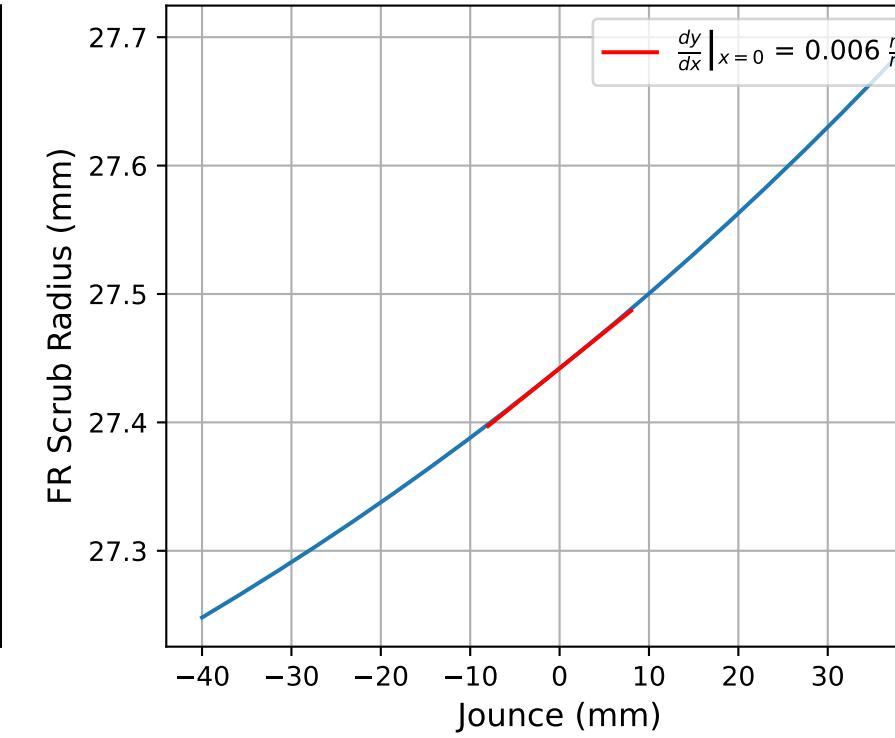
$$f(x) = a_3 x^3 + a_2 x^2 + a_1 x + a_0$$

FL	$f(x) = 0.0x^3 + -0.0x^2 + -0.001x + 4.897$
FR	$f(x) = 0.0x^3 + -0.0x^2 + -0.001x + 4.897$
RL	$f(x) = -0.0x^3 + 0.0x^2 + -0.002x + 7.104$
RR	$f(x) = -0.0x^3 + 0.0x^2 + -0.002x + 7.104$

FL Bump Scrub Radius



FR Bump Scrub Radius

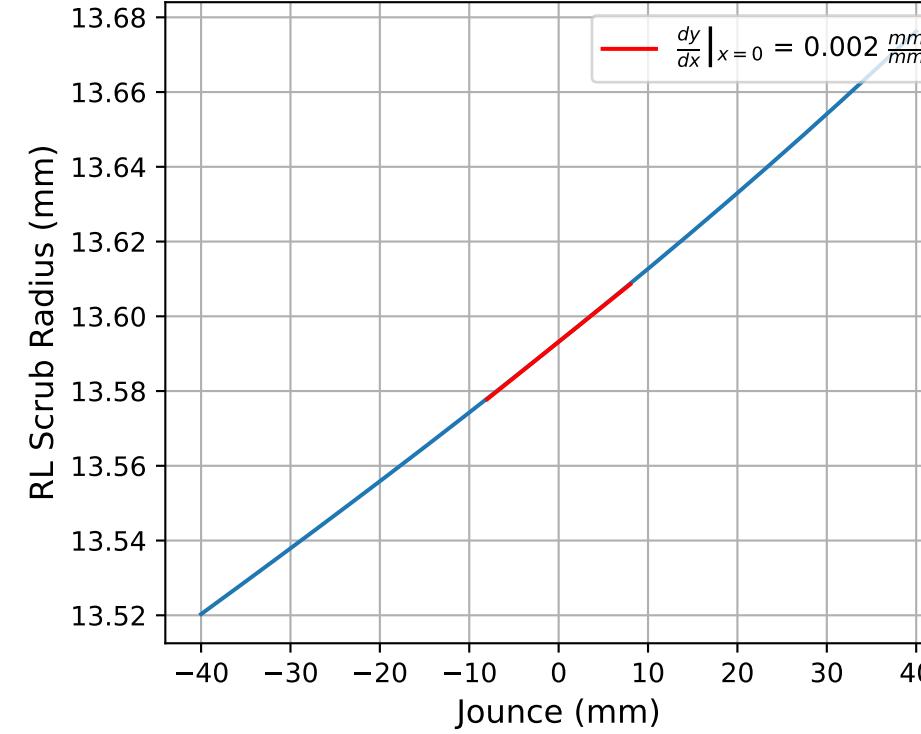


Linear Fit

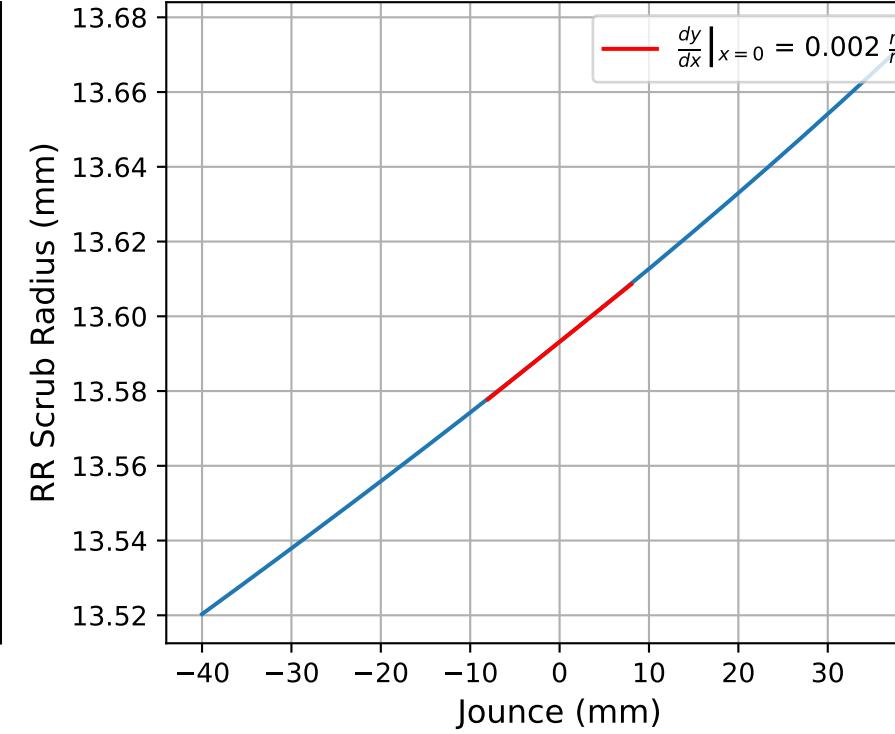
$$f(x) = a_1x + a_0$$

FL	$f(x) = 0.006x + 27.442$
FR	$f(x) = 0.006x + 27.442$
RL	$f(x) = 0.002x + 13.593$
RR	$f(x) = 0.002x + 13.593$

RL Bump Scrub Radius



RR Bump Scrub Radius

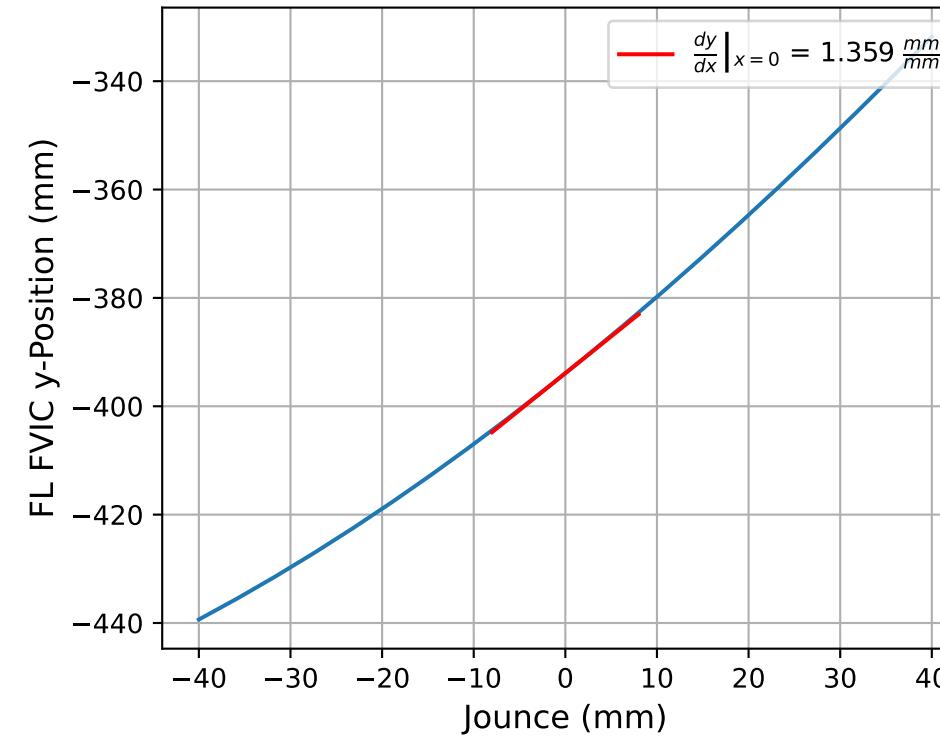


Cubic Fit

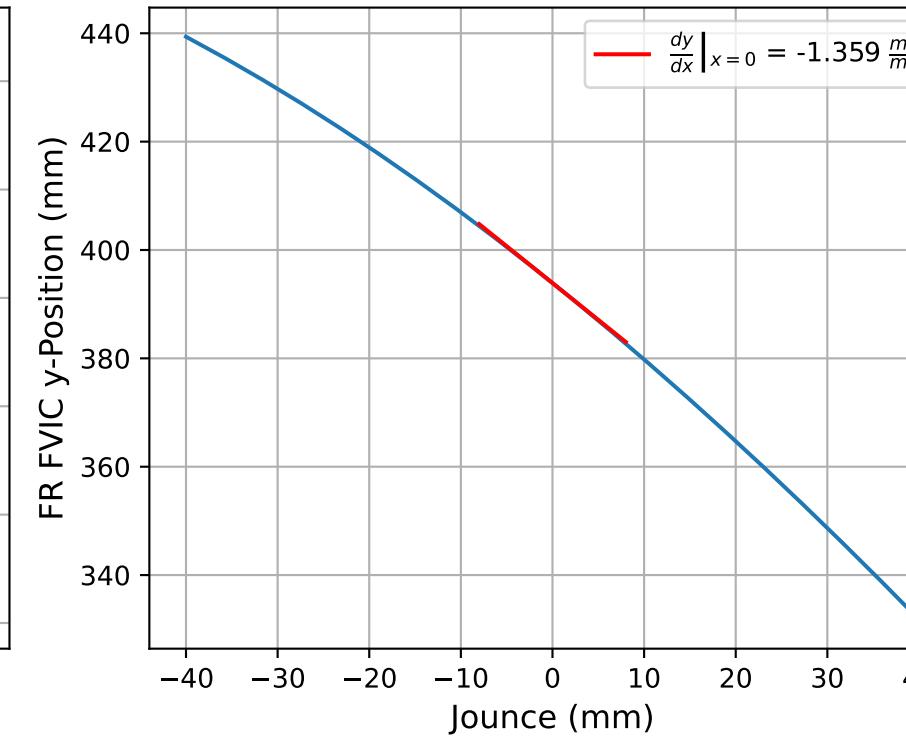
$$f(x) = a_3x^3 + a_2x^2 + a_1x + a_0$$

FL	$f(x) = 0.0x^3 + 0.0x^2 + 0.006x + 27.442$
FR	$f(x) = 0.0x^3 + 0.0x^2 + 0.006x + 27.442$
RL	$f(x) = 0.0x^3 + 0.0x^2 + 0.002x + 13.593$
RR	$f(x) = 0.0x^3 + 0.0x^2 + 0.002x + 13.593$

FL Bump FVIC y-Migration



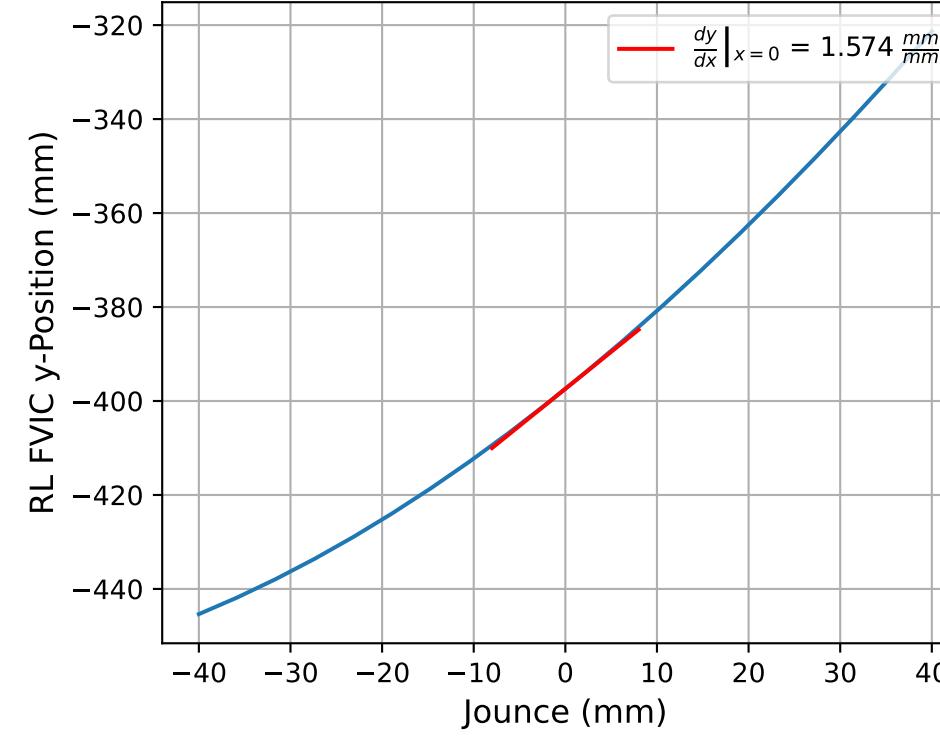
FR Bump FVIC y-Migration

**Linear Fit**

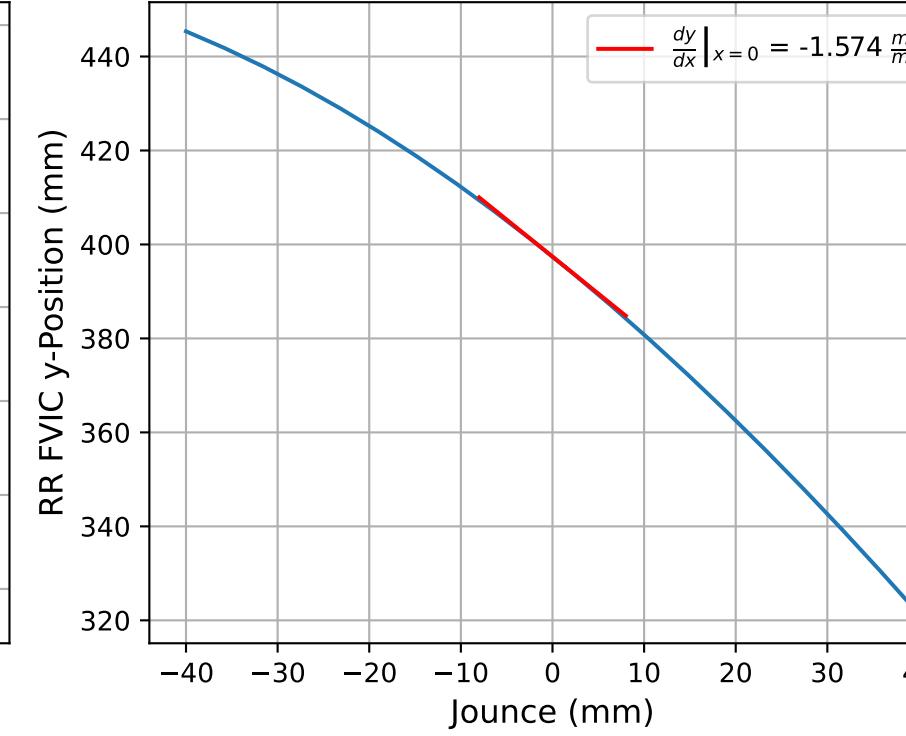
$$f(x) = a_1x + a_0$$

FL	$f(x) = 1.359x + -393.907$
FR	$f(x) = -1.359x + 393.907$
RL	$f(x) = 1.574x + -397.417$
RR	$f(x) = -1.574x + 397.417$

RL Bump FVIC y-Migration



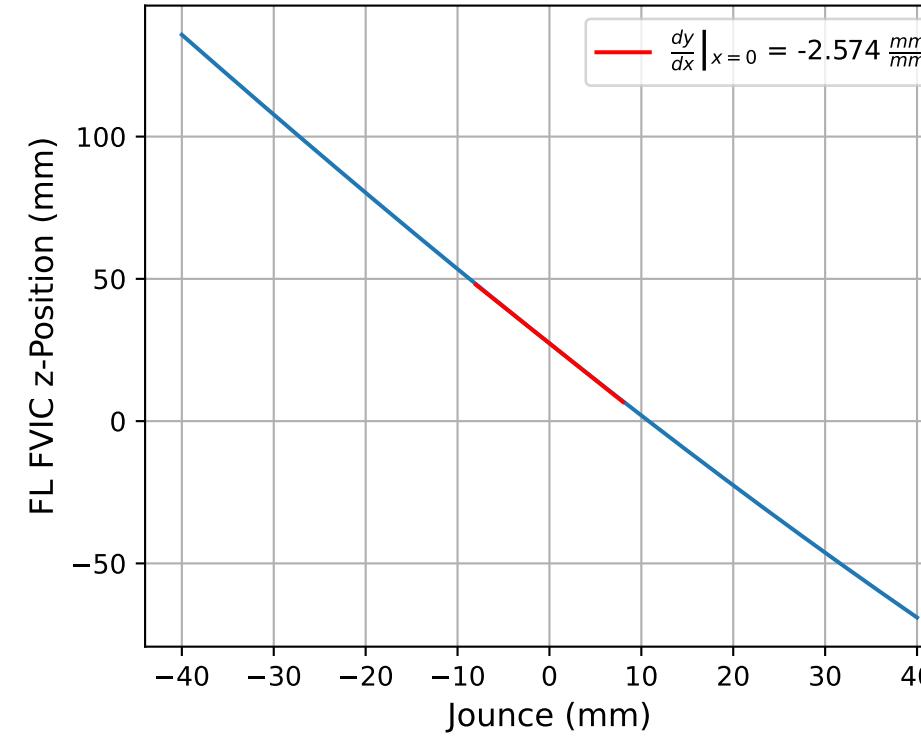
RR Bump FVIC y-Migration

**Cubic Fit**

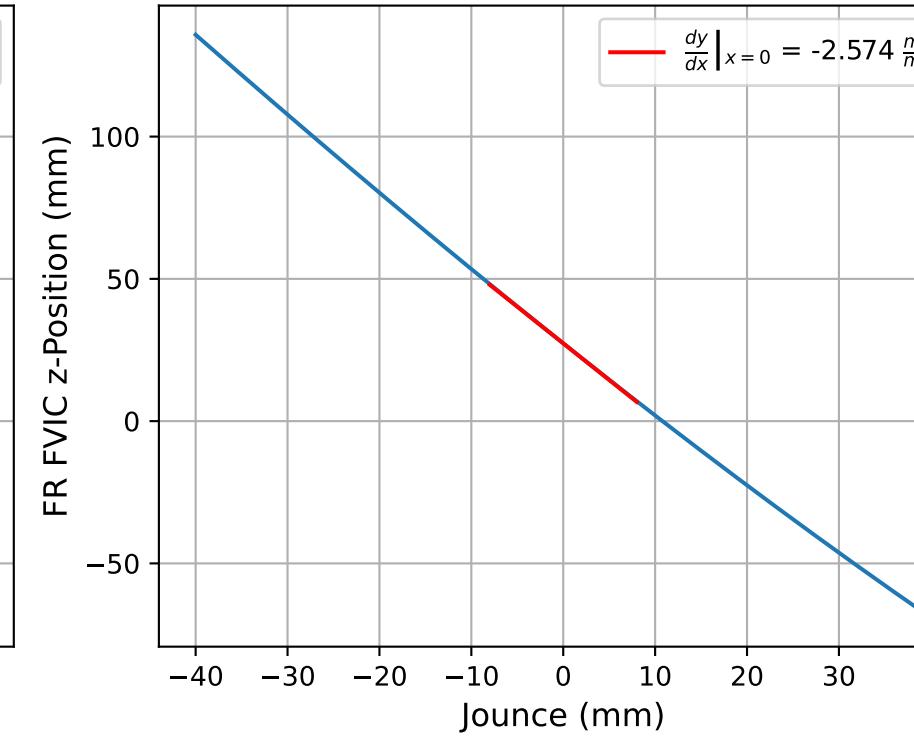
$$f(x) = a_3x^3 + a_2x^2 + a_1x + a_0$$

FL	$f(x) = -0.0x^3 + 0.005x^2 + 1.359x + -393.906$
FR	$f(x) = 0.0x^3 + -0.005x^2 + -1.359x + 393.906$
RL	$f(x) = -0.0x^3 + 0.009x^2 + 1.574x + -397.413$
RR	$f(x) = 0.0x^3 + -0.009x^2 + -1.574x + 397.413$

FL Bump FVIC z-Migration



FR Bump FVIC z-Migration

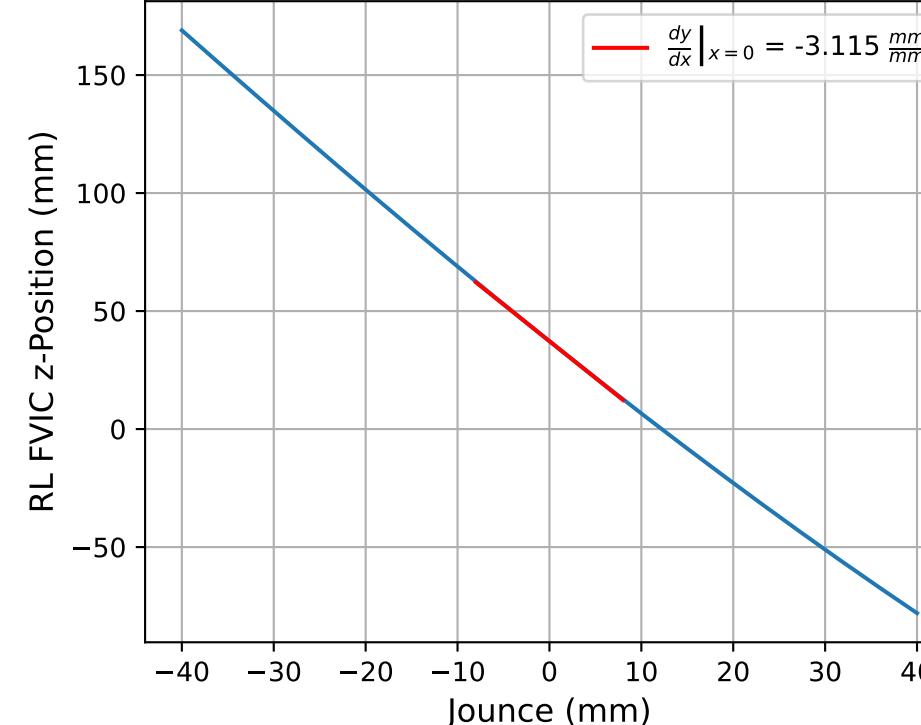


Linear Fit

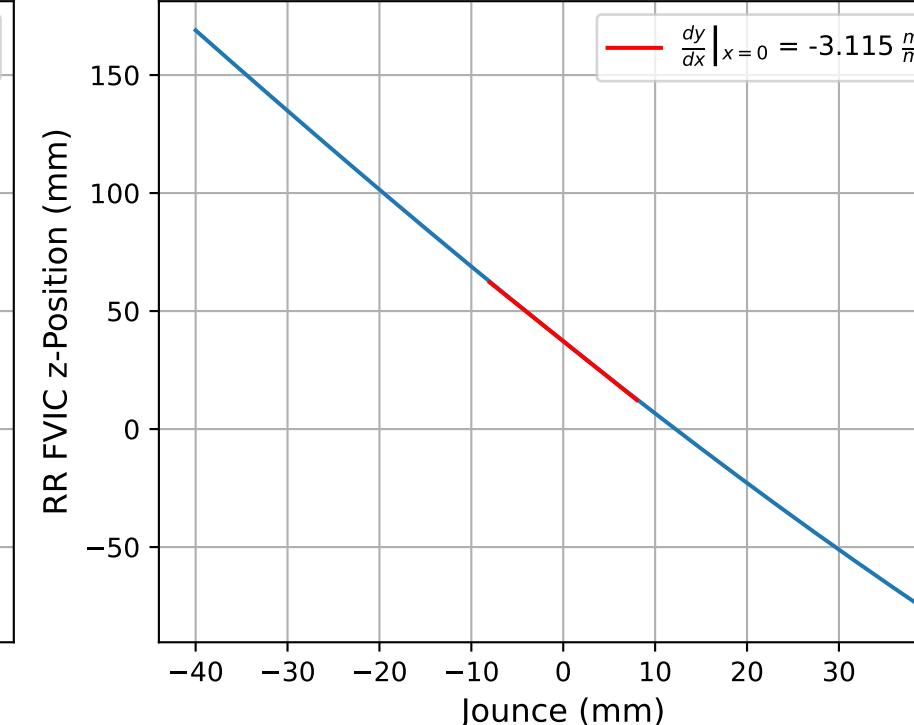
$$f(x) = a_1x + a_0$$

FL	$f(x) = -2.574x + 27.34$
FR	$f(x) = -2.574x + 27.34$
RL	$f(x) = -3.115x + 37.239$
RR	$f(x) = -3.115x + 37.239$

RL Bump FVIC z-Migration



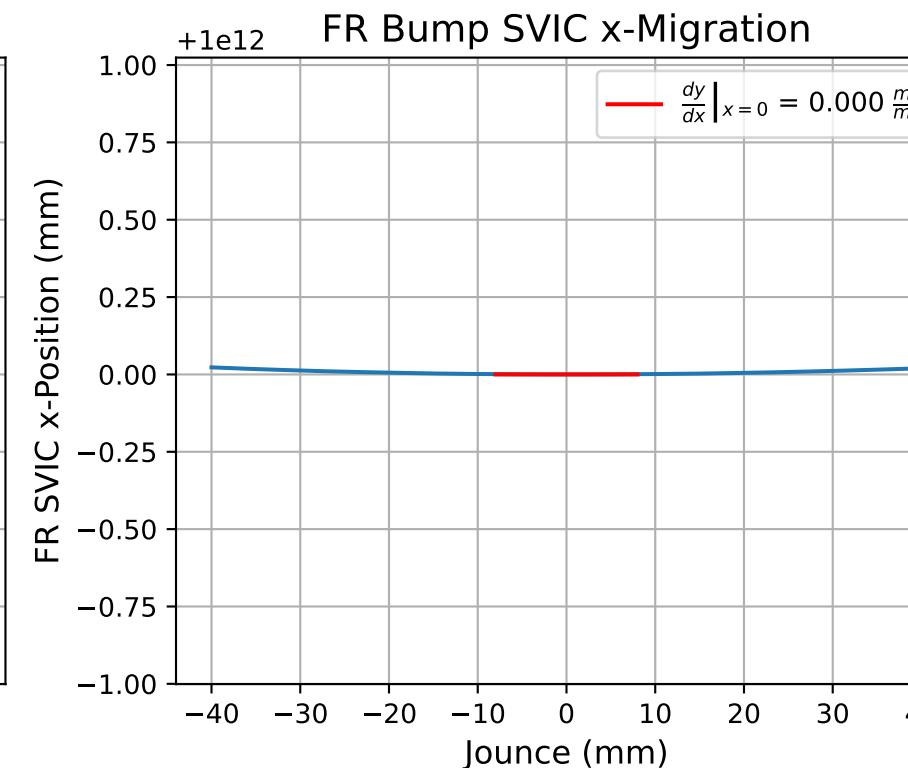
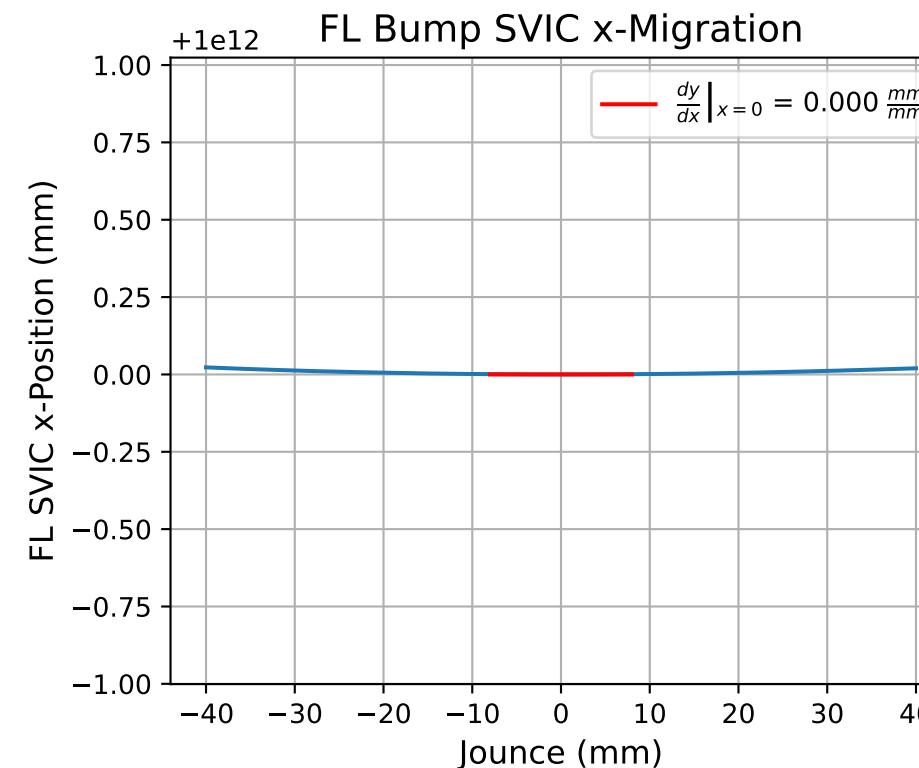
RR Bump FVIC z-Migration



Cubic Fit

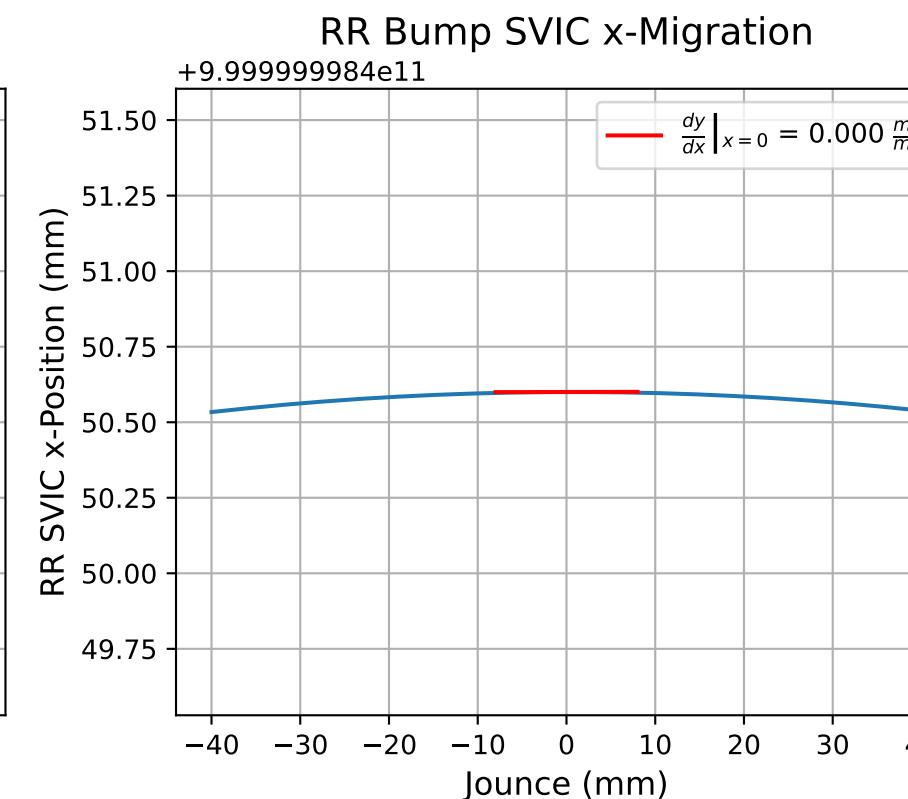
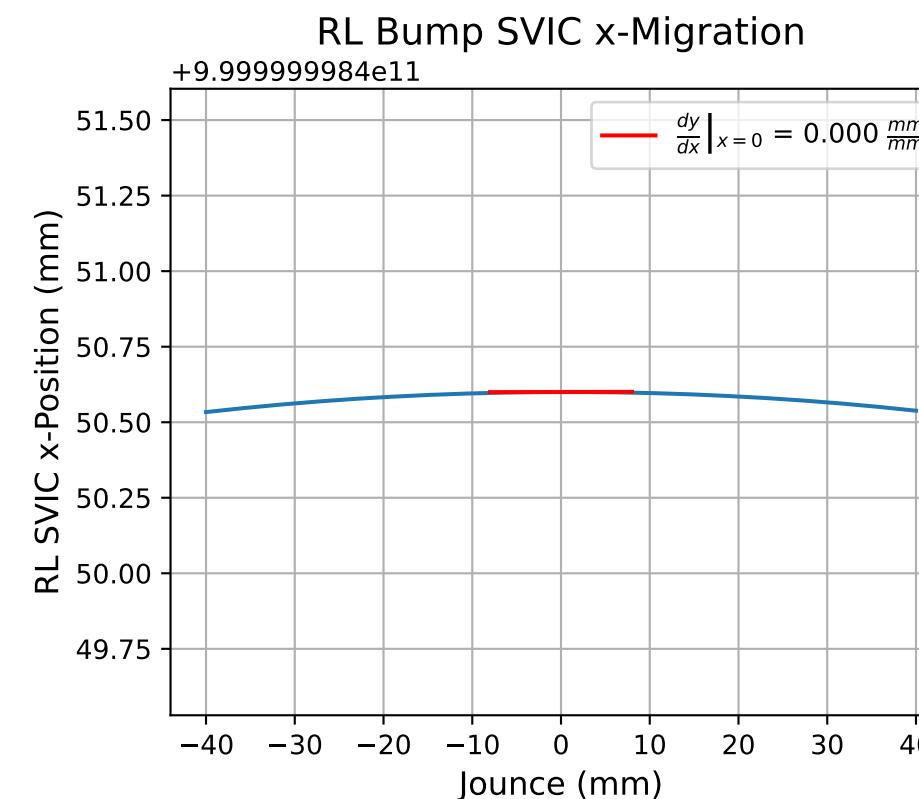
$$f(x) = a_3x^3 + a_2x^2 + a_1x + a_0$$

FL	$f(x) = 0.0x^3 + 0.004x^2 + -2.574x + 27.343$
FR	$f(x) = 0.0x^3 + 0.004x^2 + -2.574x + 27.343$
RL	$f(x) = 0.0x^3 + 0.005x^2 + -3.115x + 37.245$
RR	$f(x) = 0.0x^3 + 0.005x^2 + -3.115x + 37.245$



Linear Fit $f(x) = a_1x + a_0$

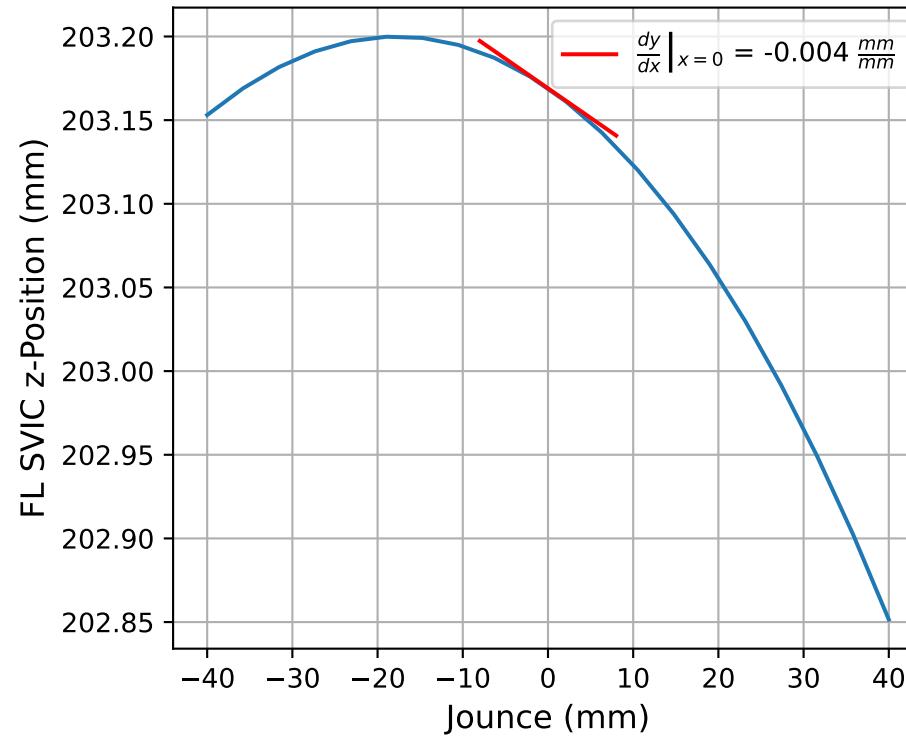
FL	$f(x) = 0.0x + 1.000e+12$
FR	$f(x) = 0.0x + 1.000e+12$
RL	$f(x) = 0.0x + 1.000e+12$
RR	$f(x) = 0.0x + 1.000e+12$



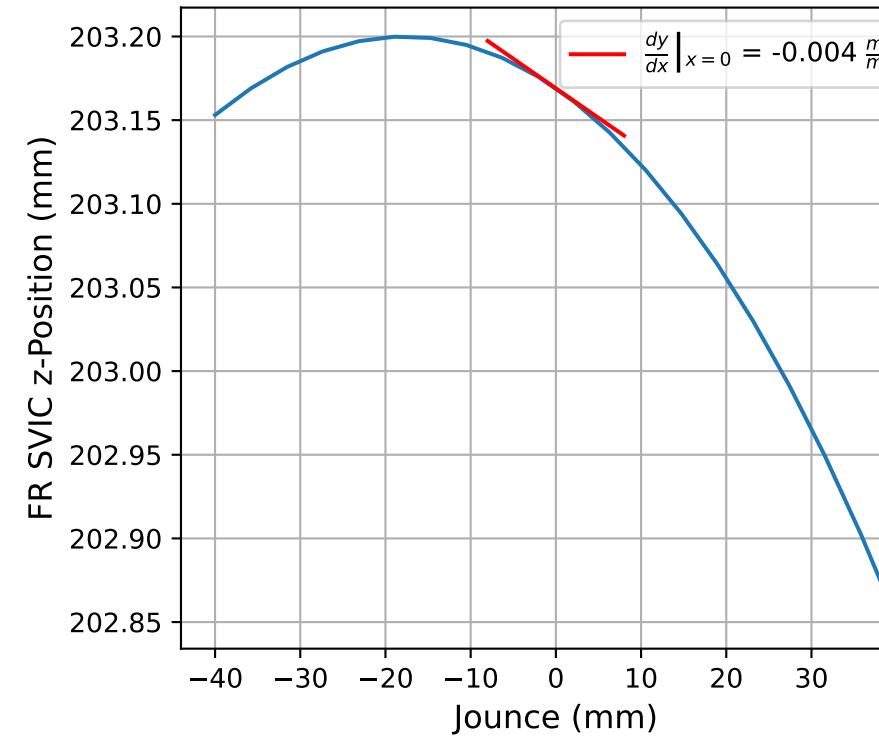
Cubic Fit $f(x) = a_3x^3 + a_2x^2 + a_1x + a_0$

FL	$f(x) = 0.0x^3 + 0.0x^2 + -0.0x + 1.0e+12$
FR	$f(x) = 0.0x^3 + 0.0x^2 + -0.0x + 1.0e+12$
RL	$f(x) = 0.0x^3 + -0.0x^2 + 0.0x + 1.0e+12$
RR	$f(x) = 0.0x^3 + -0.0x^2 + 0.0x + 1.0e+12$

FL Bump SVIC z-Migration



FR Bump SVIC z-Migration

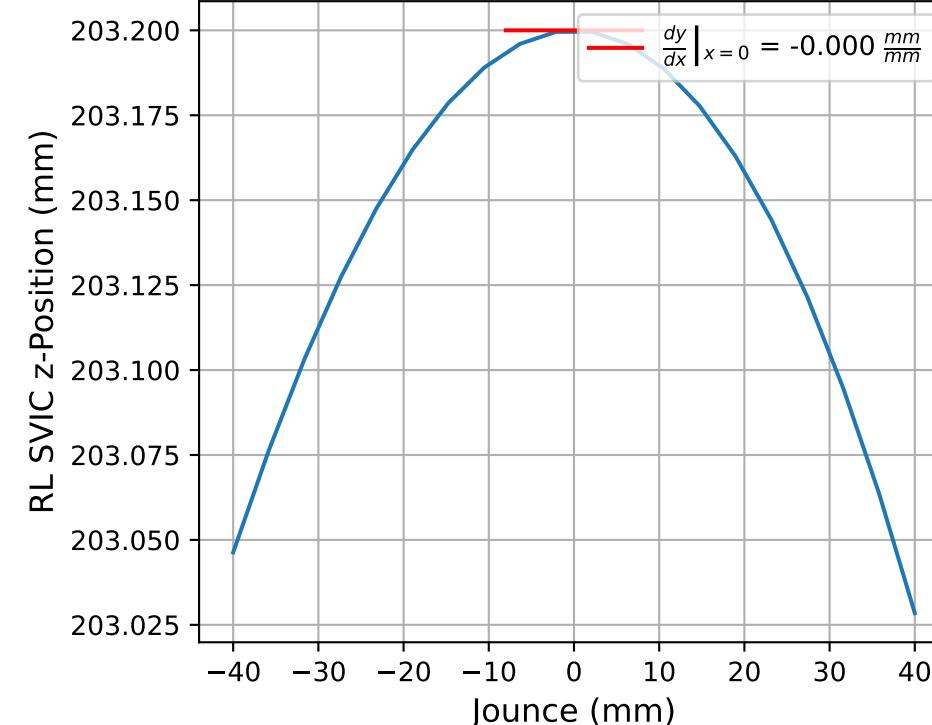


Linear Fit

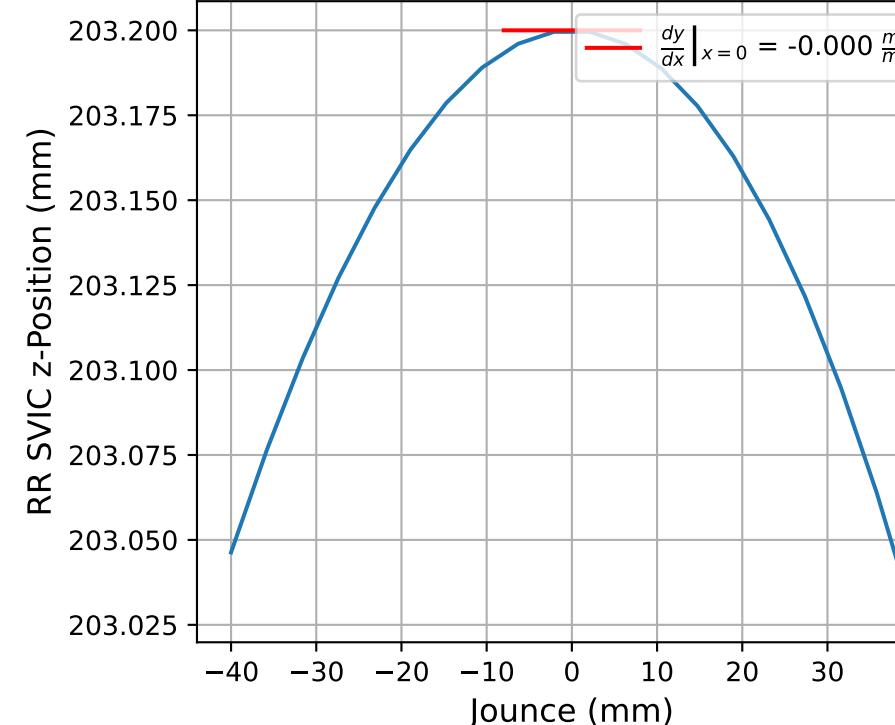
$$f(x) = a_1x + a_0$$

FL	$f(x) = -0.004x + 203.169$
FR	$f(x) = -0.004x + 203.169$
RL	$f(x) = -0.0x + 203.2$
RR	$f(x) = -0.0x + 203.2$

RL Bump SVIC z-Migration



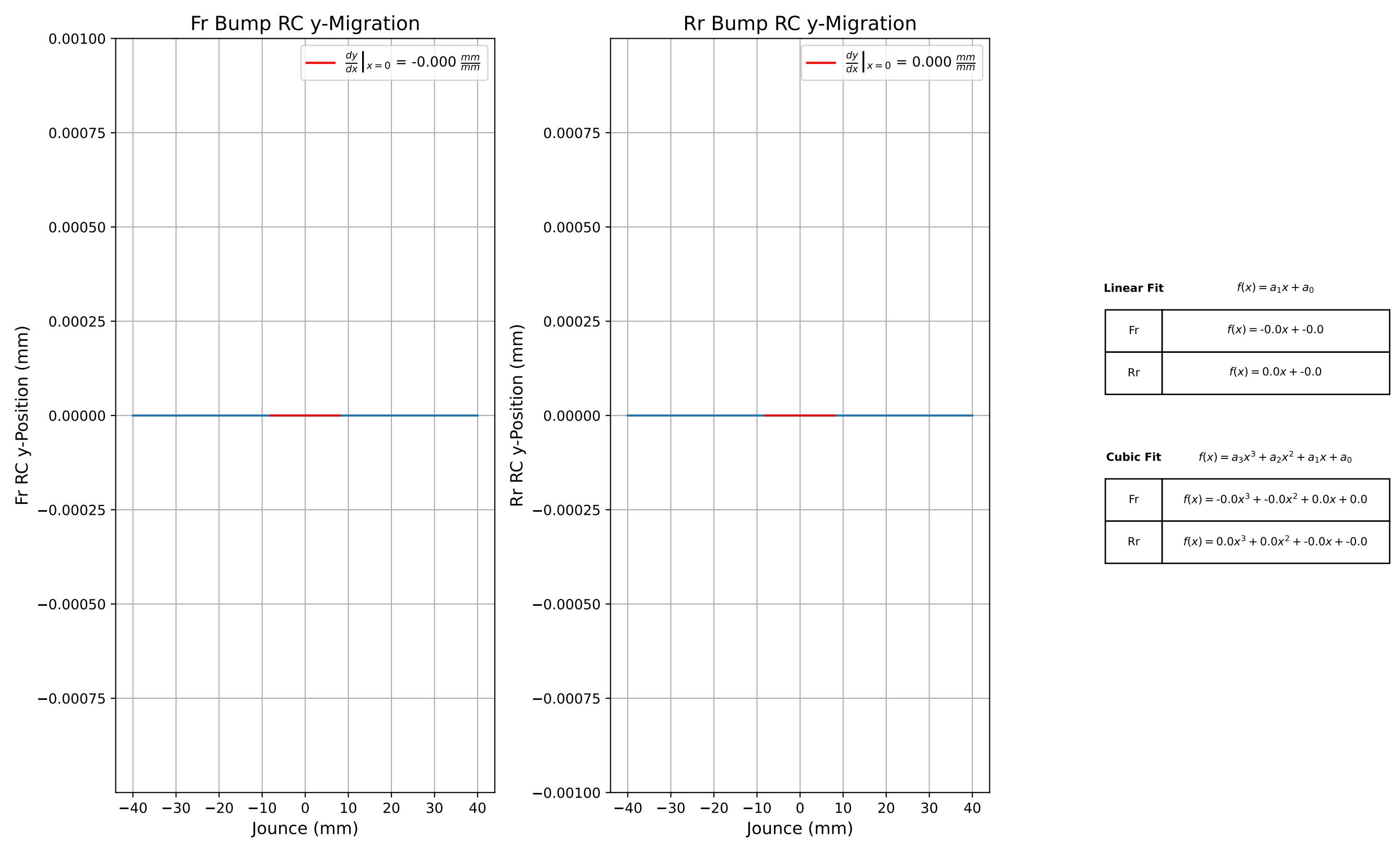
RR Bump SVIC z-Migration



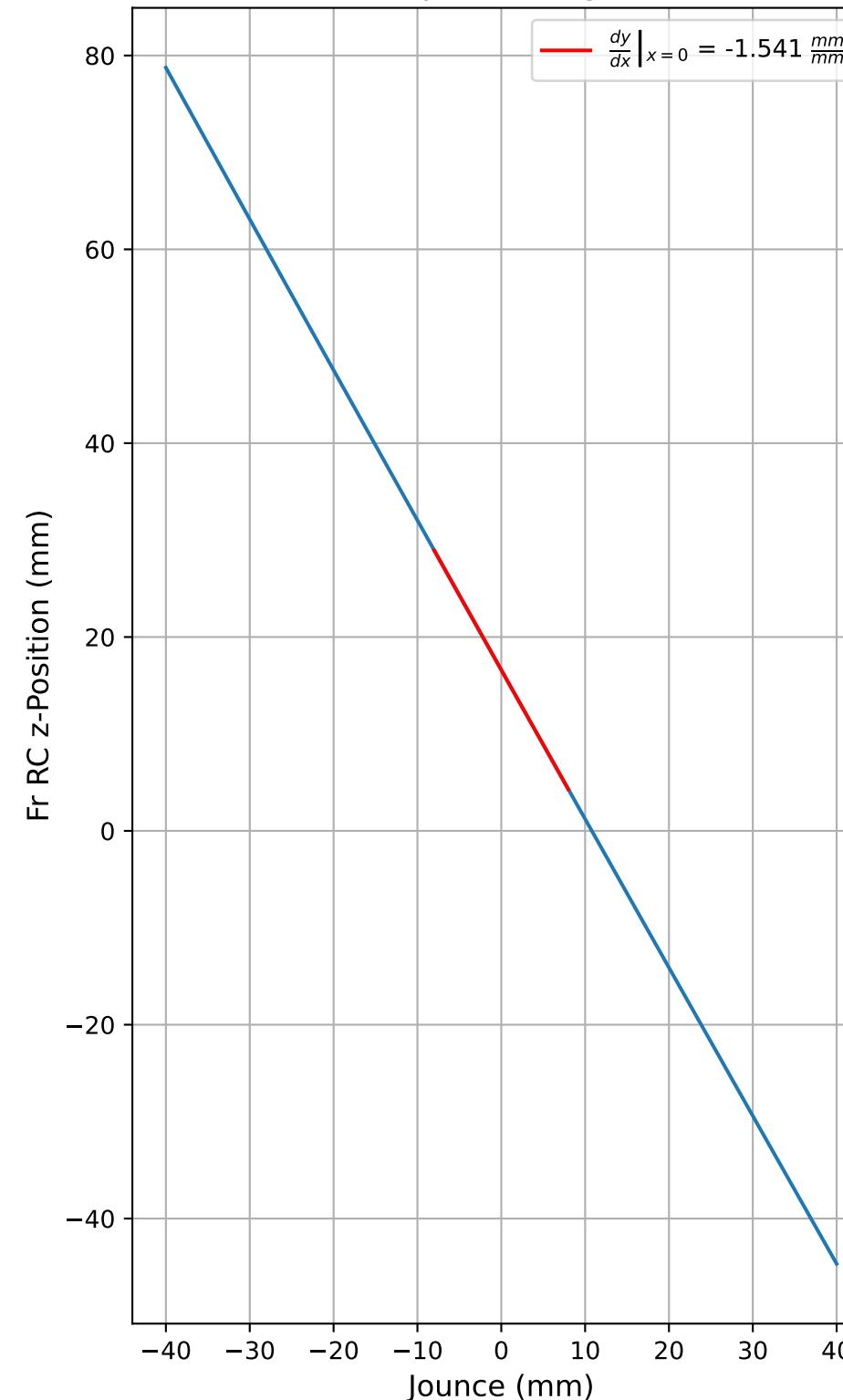
Cubic Fit

$$f(x) = a_3x^3 + a_2x^2 + a_1x + a_0$$

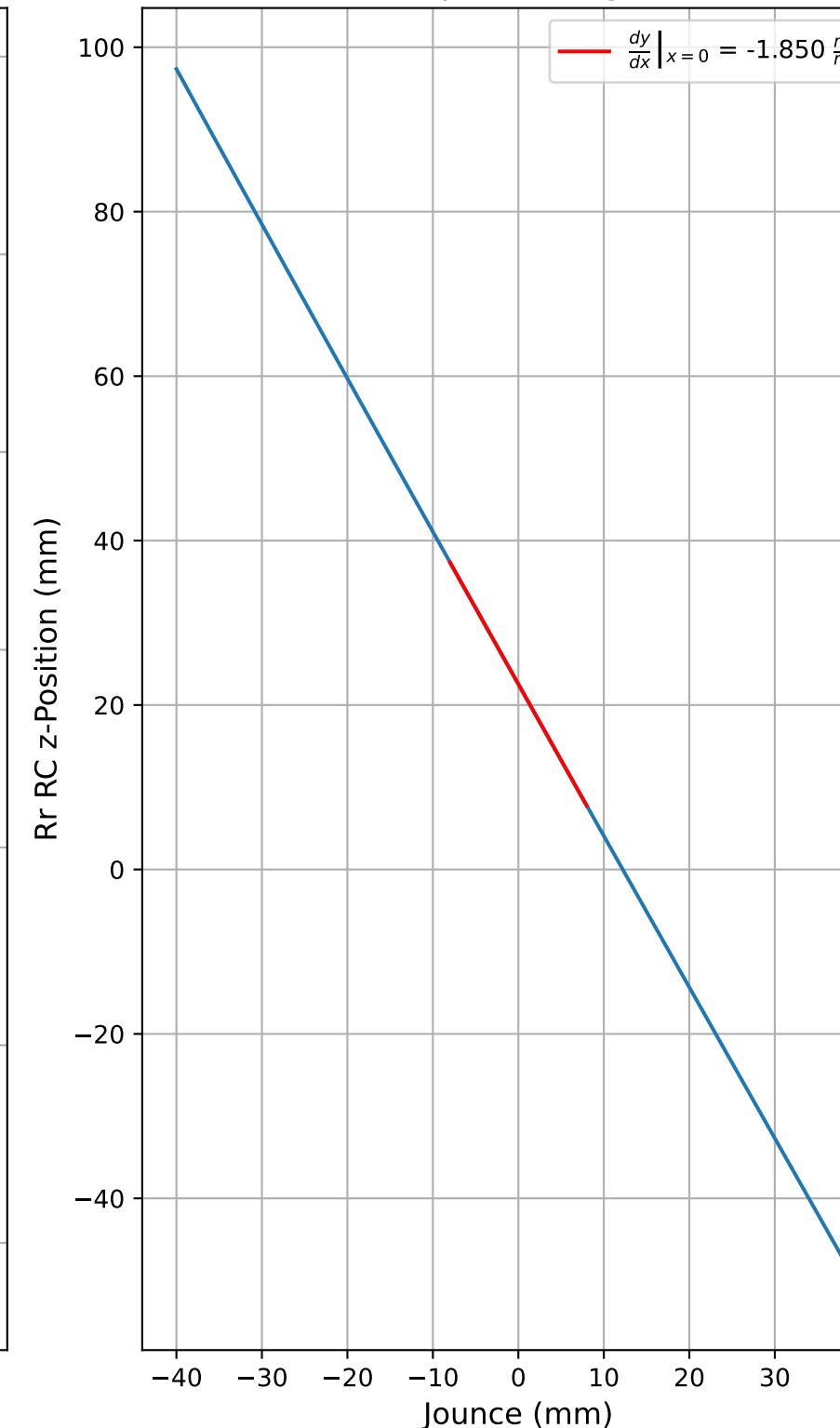
FL	$f(x) = -0.0x^3 + -0.0x^2 + -0.004x + 203.169$
FR	$f(x) = -0.0x^3 + -0.0x^2 + -0.004x + 203.169$
RL	$f(x) = -0.0x^3 + -0.0x^2 + 0.0x + 203.2$
RR	$f(x) = -0.0x^3 + -0.0x^2 + 0.0x + 203.2$



Fr Bump RC z-Migration



Rr Bump RC z-Migration



Linear Fit

$$f(x) = a_1x + a_0$$

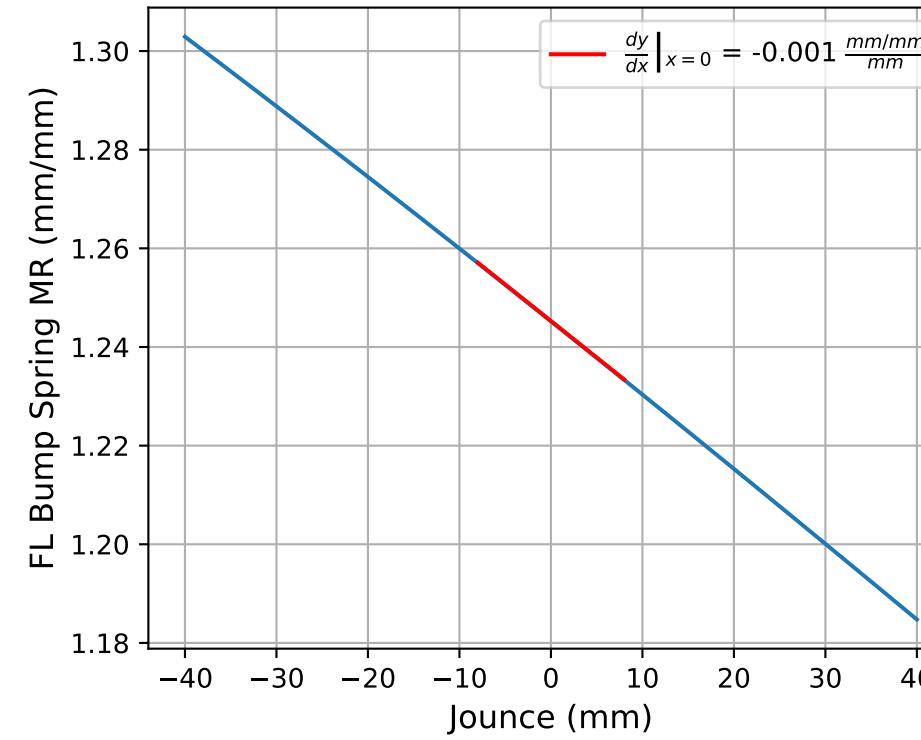
Fr	$f(x) = -1.541x + 16.608$
Rr	$f(x) = -1.85x + 22.543$

Cubic Fit

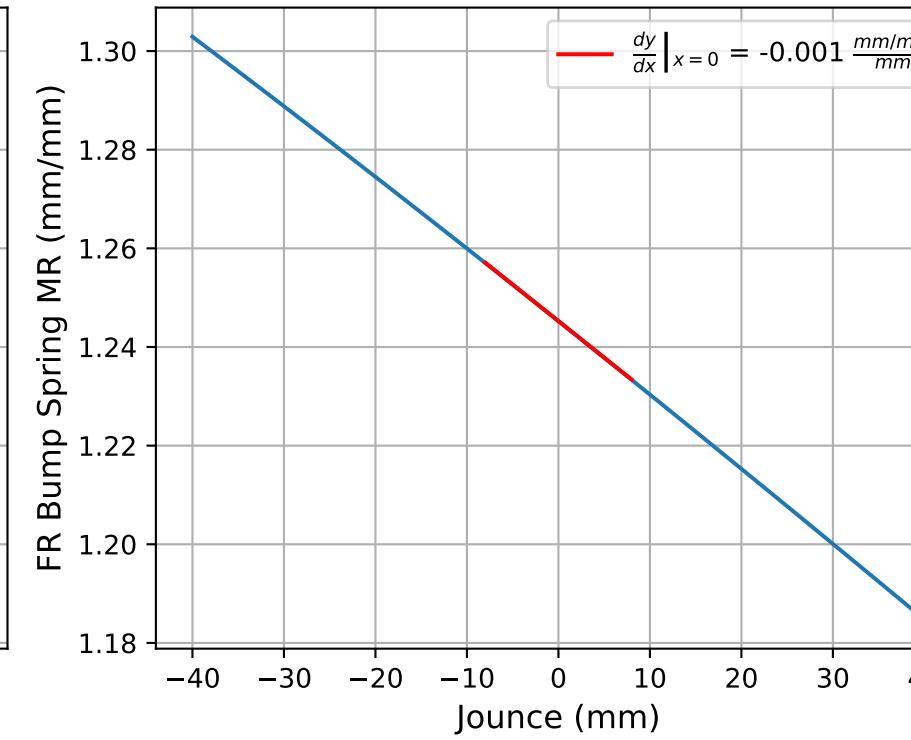
$$f(x) = a_3x^3 + a_2x^2 + a_1x + a_0$$

Fr	$f(x) = -0.0x^3 + 0.0x^2 + -1.541x + 16.607$
Rr	$f(x) = -0.0x^3 + 0.0x^2 + -1.85x + 22.541$

FL Bump Spring MRs



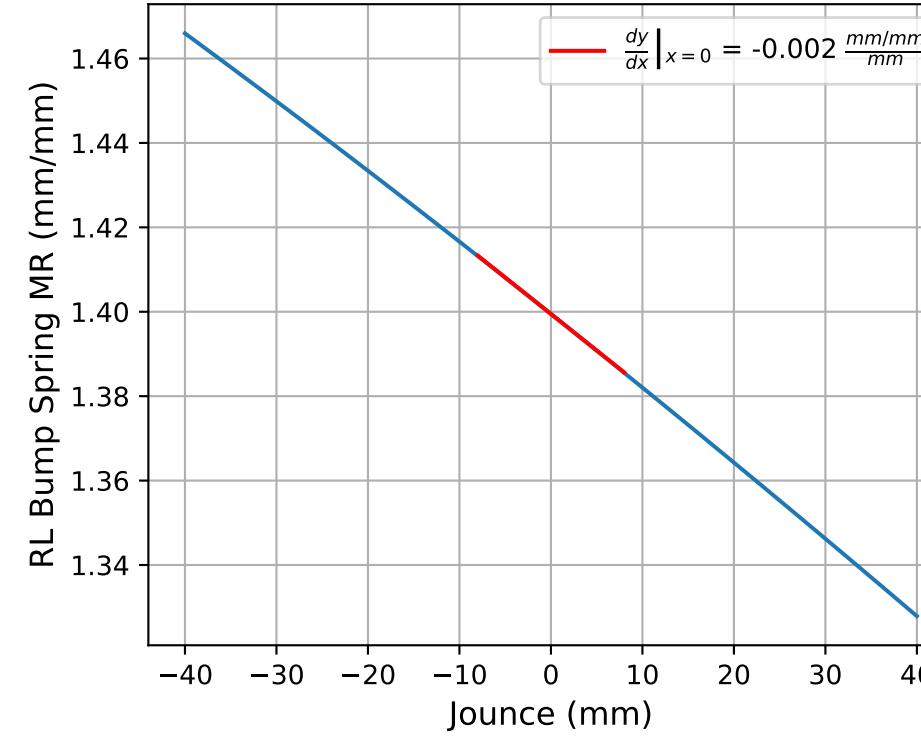
FR Bump Spring MRs

**Linear Fit**

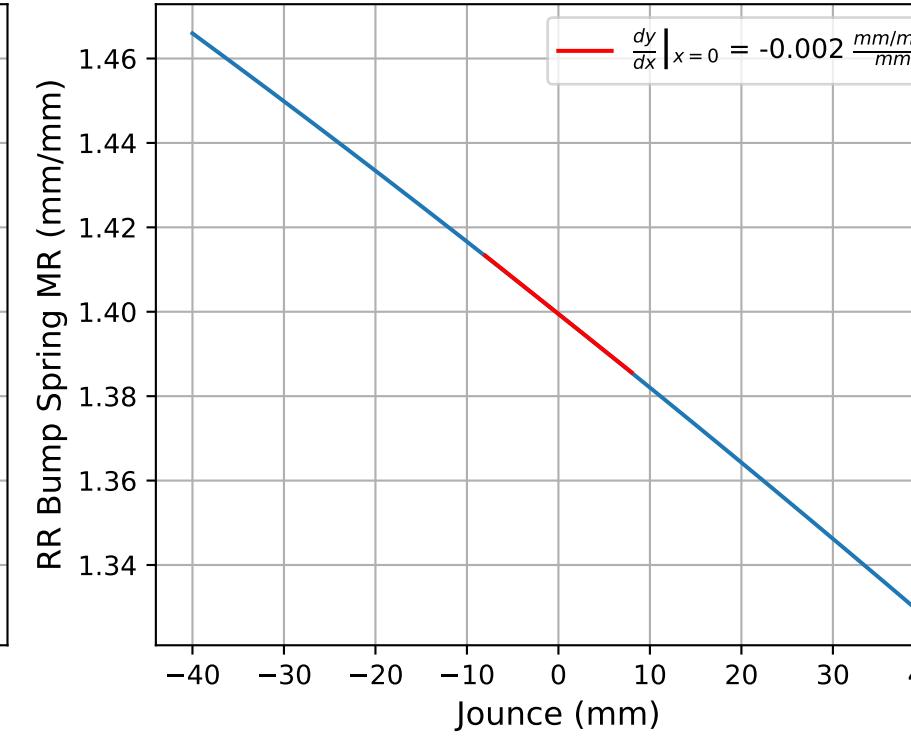
$$f(x) = a_1x + a_0$$

FL	$f(x) = -0.001x + 1.245$
FR	$f(x) = -0.001x + 1.245$
RL	$f(x) = -0.002x + 1.399$
RR	$f(x) = -0.002x + 1.399$

RL Bump Spring MRs



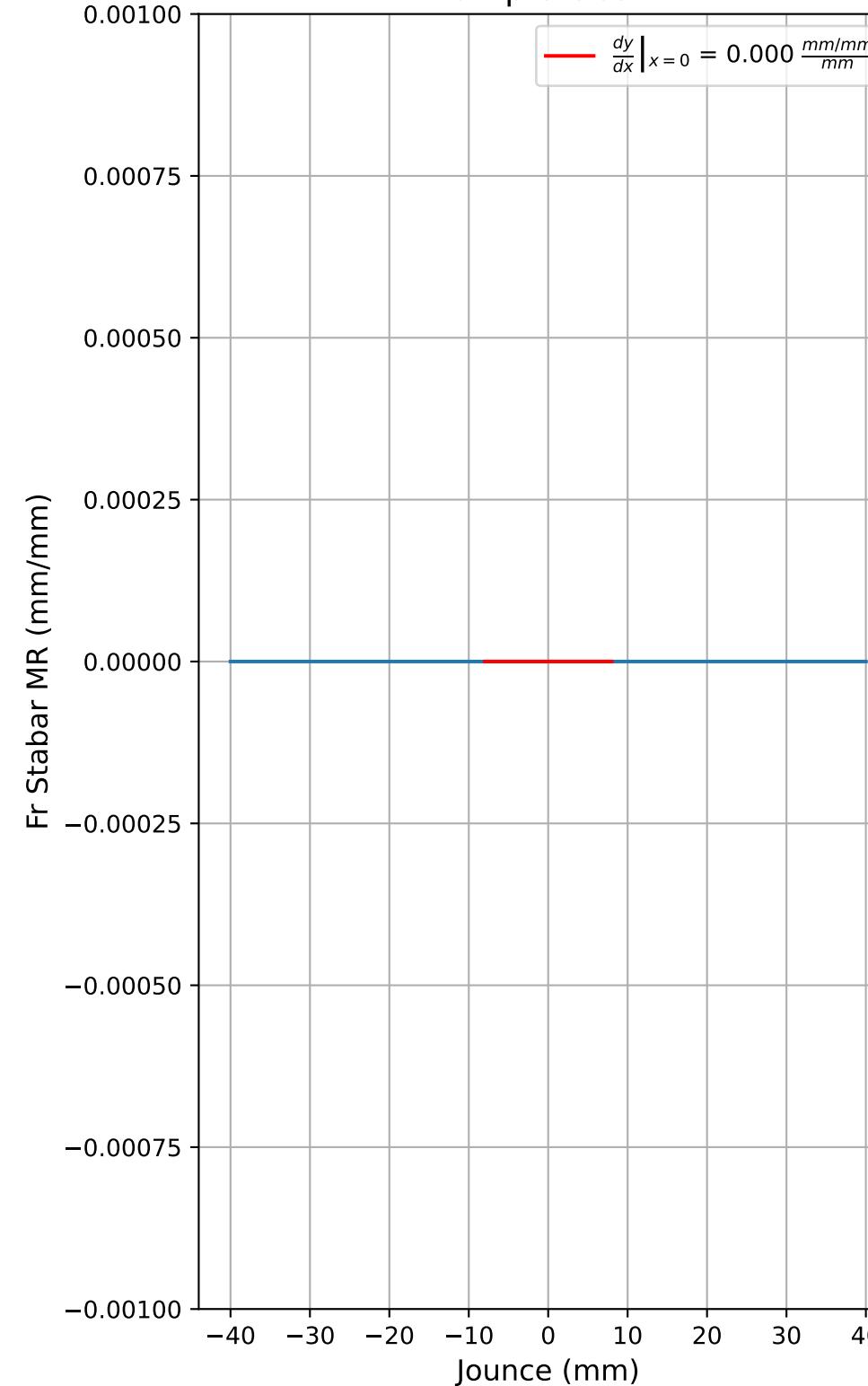
RR Bump Spring MRs

**Cubic Fit**

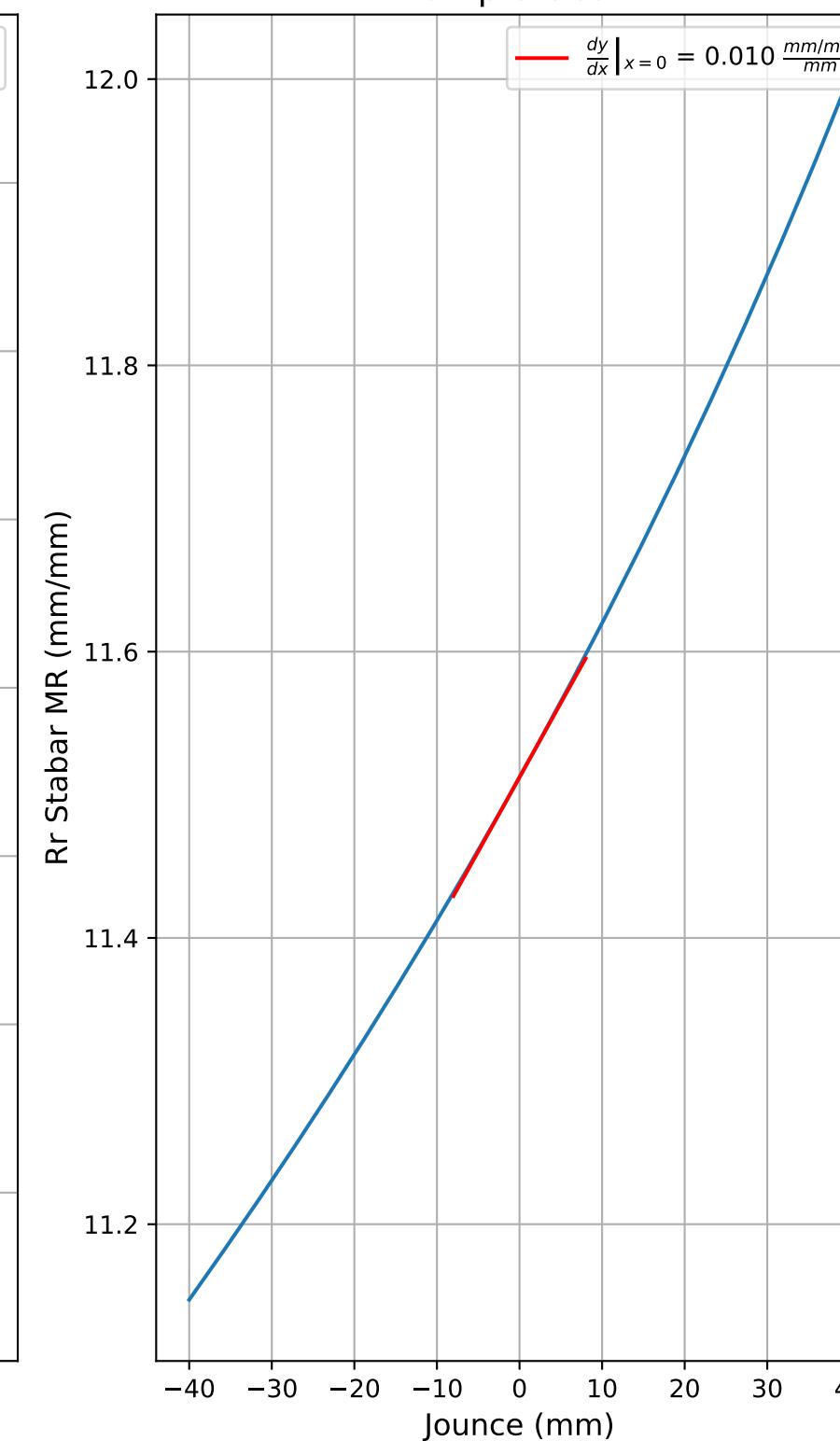
$$f(x) = a_3x^3 + a_2x^2 + a_1x + a_0$$

FL	$f(x) = 0.0x^3 + -0.0x^2 + -0.001x + 1.245$
FR	$f(x) = 0.0x^3 + -0.0x^2 + -0.001x + 1.245$
RL	$f(x) = 0.0x^3 + -0.0x^2 + -0.002x + 1.399$
RR	$f(x) = 0.0x^3 + -0.0x^2 + -0.002x + 1.399$

Fr Bump Stabar MR



Rr Bump Stabar MR

**Linear Fit**

$$f(x) = a_1x + a_0$$

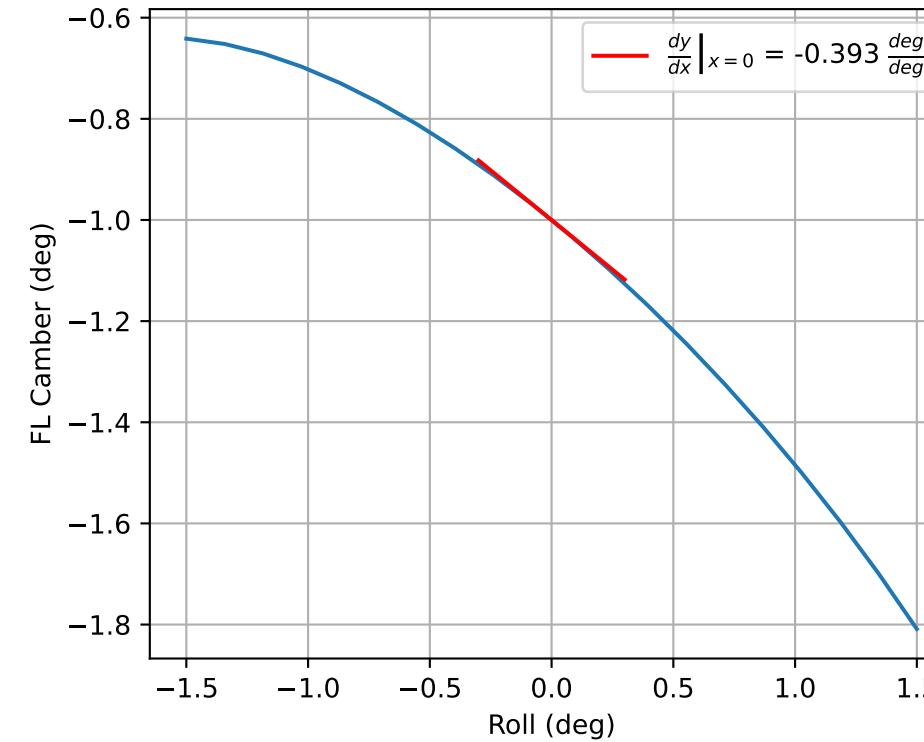
Fr	$f(x) = 0.0x + 0.0$
Rr	$f(x) = 0.01x + 11.512$

Cubic Fit

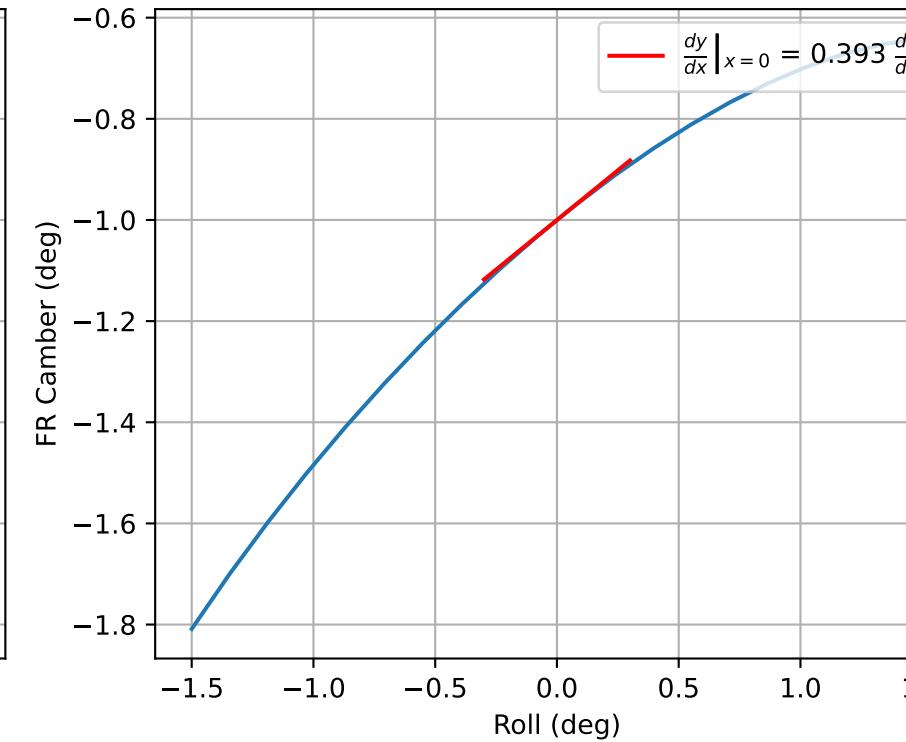
$$f(x) = a_3x^3 + a_2x^2 + a_1x + a_0$$

Fr	$f(x) = 0.0x^3 + 0.0x^2 + 0.0x + 0.0$
Rr	$f(x) = 0.0x^3 + 0.0x^2 + 0.01x + 11.512$

FL Roll Camber



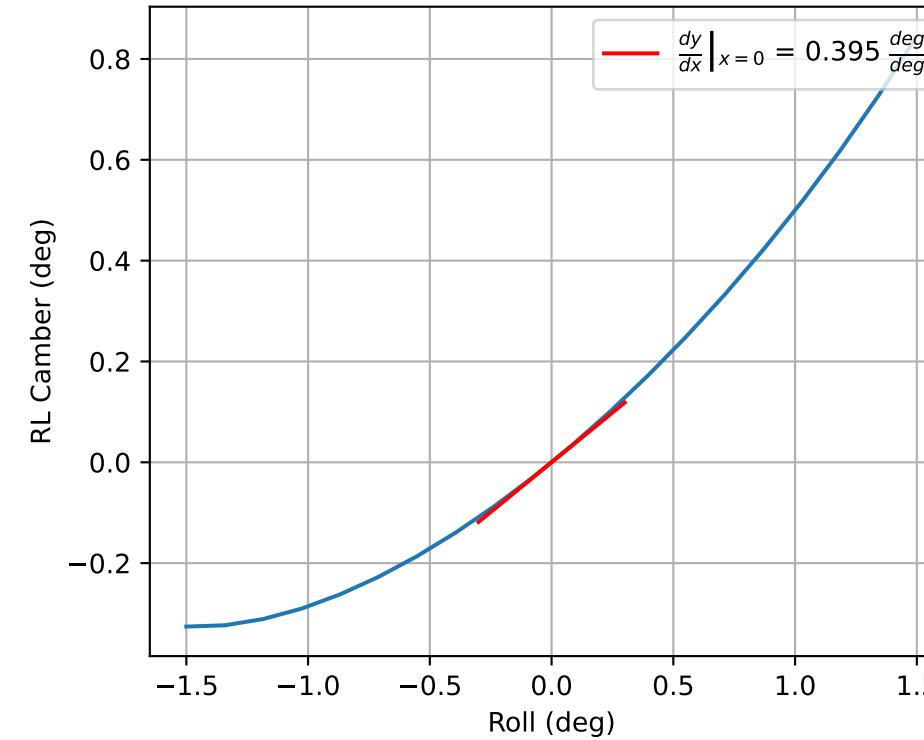
FR Roll Camber

**Linear Fit**

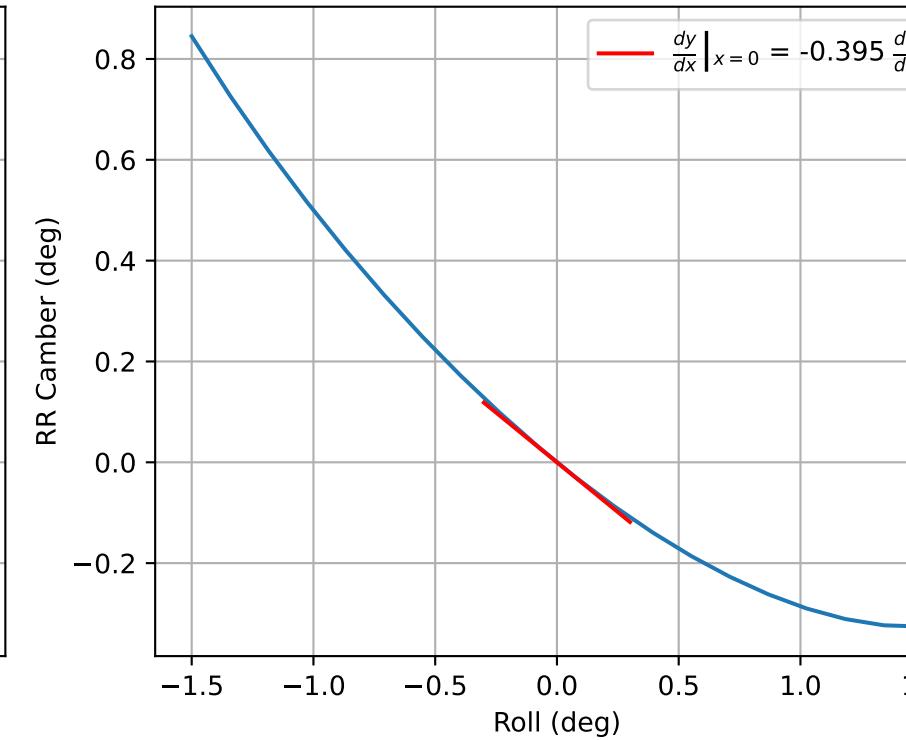
$$f(x) = a_1 x + a_0$$

FL	$f(x) = -0.393x + -1.0$
FR	$f(x) = 0.393x + -1.0$
RL	$f(x) = 0.395x + -0.0$
RR	$f(x) = -0.395x + -0.0$

RL Roll Camber



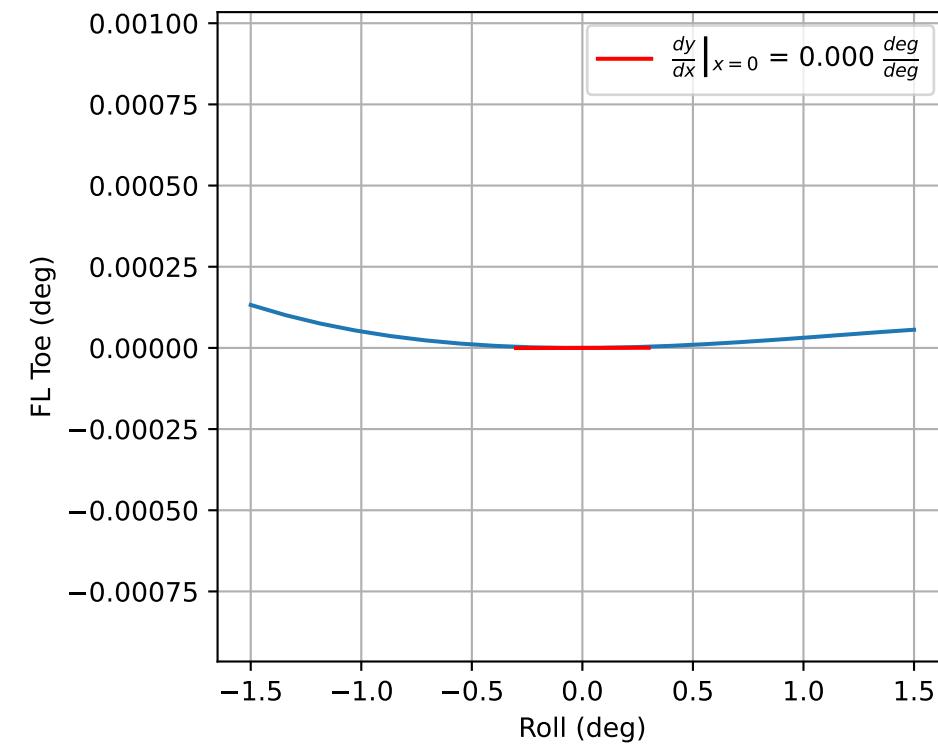
RR Roll Camber

**Cubic Fit**

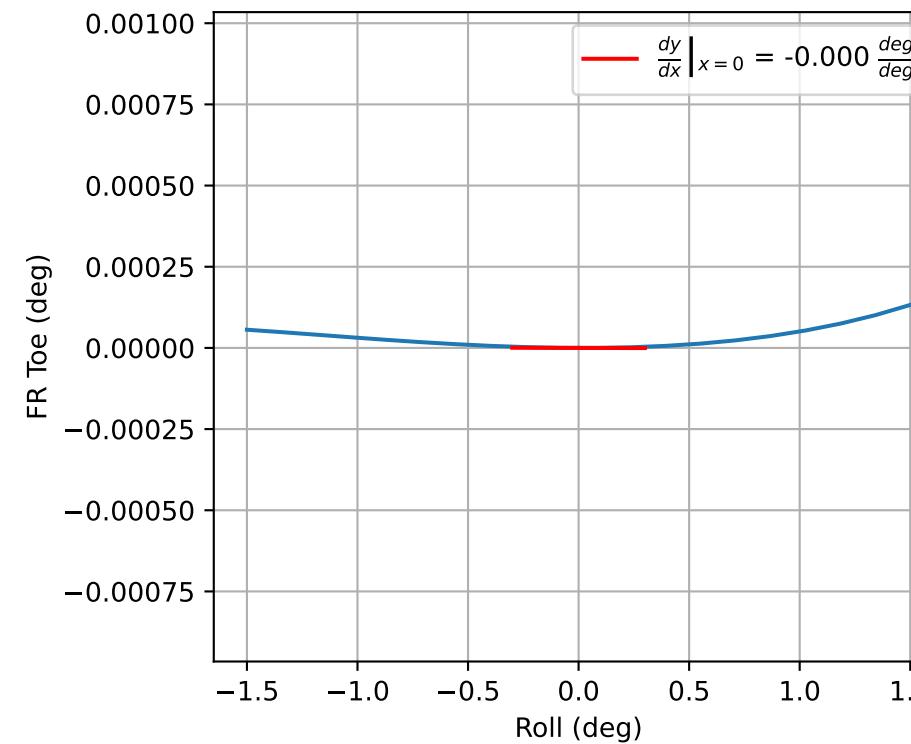
$$f(x) = a_3 x^3 + a_2 x^2 + a_1 x + a_0$$

FL	$f(x) = 0.002x^3 + -0.099x^2 + -0.393x + -0.997$
FR	$f(x) = -0.002x^3 + -0.099x^2 + 0.393x + -0.997$
RL	$f(x) = -0.002x^3 + 0.114x^2 + 0.395x + -0.003$
RR	$f(x) = 0.002x^3 + 0.114x^2 + -0.395x + -0.003$

FL Roll Toe



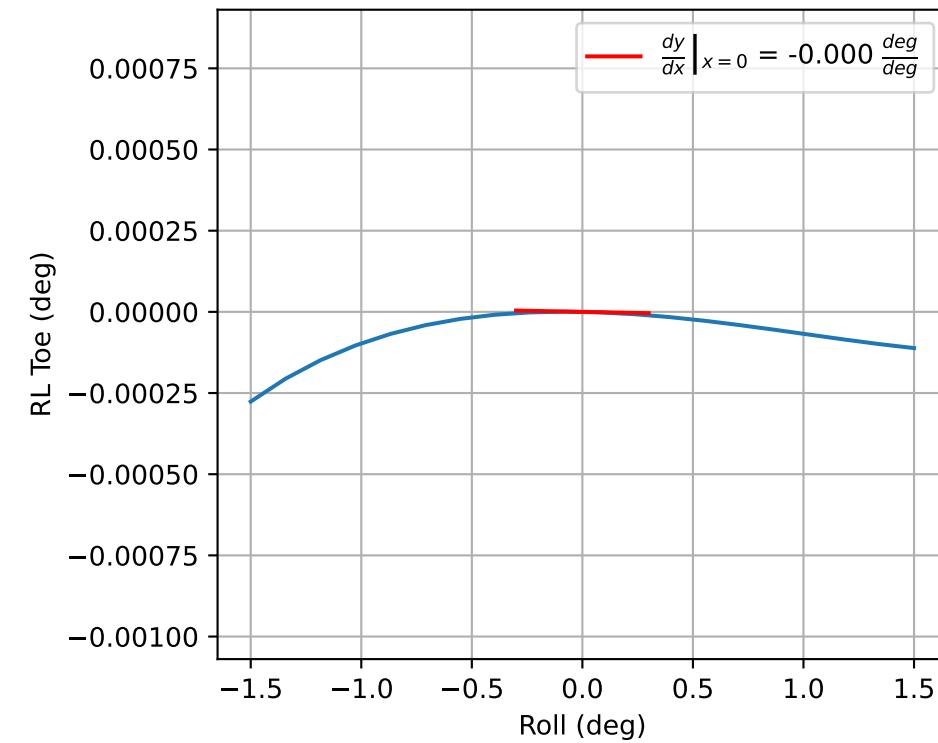
FR Roll Toe

**Linear Fit**

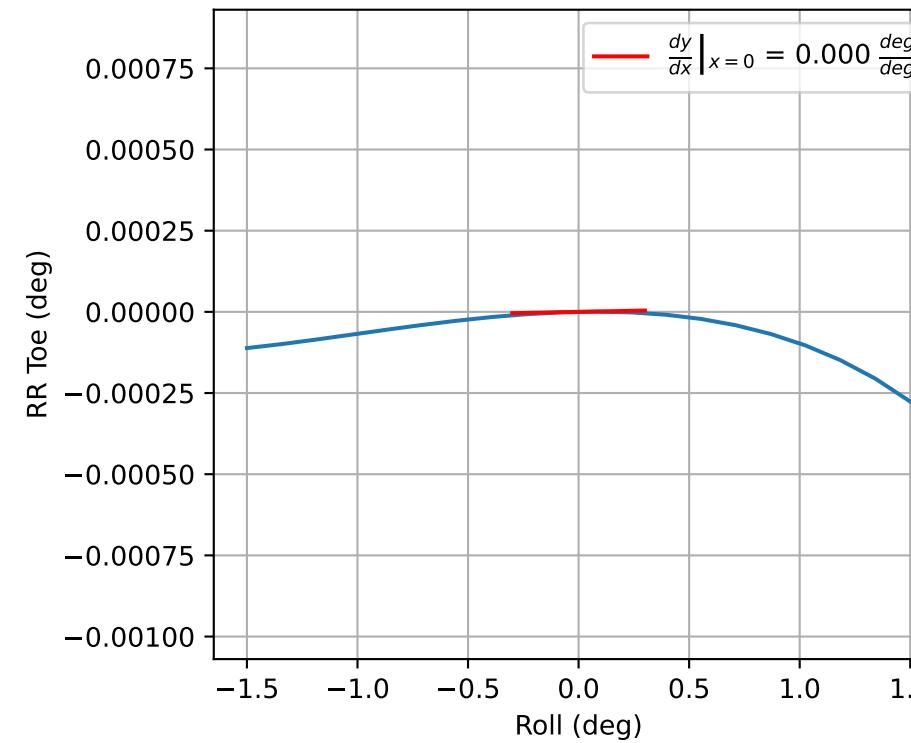
$$f(x) = a_1x + a_0$$

FL	$f(x) = 0.0x + -0.0$
FR	$f(x) = -0.0x + -0.0$
RL	$f(x) = -0.0x + 0.0$
RR	$f(x) = 0.0x + 0.0$

RL Roll Toe



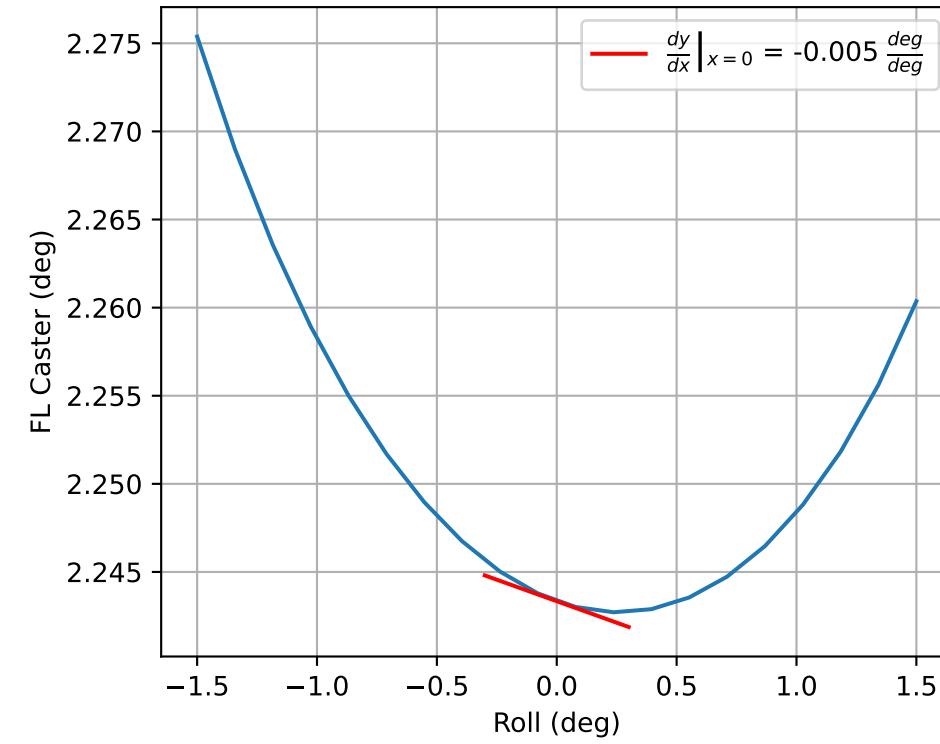
RR Roll Toe

**Cubic Fit**

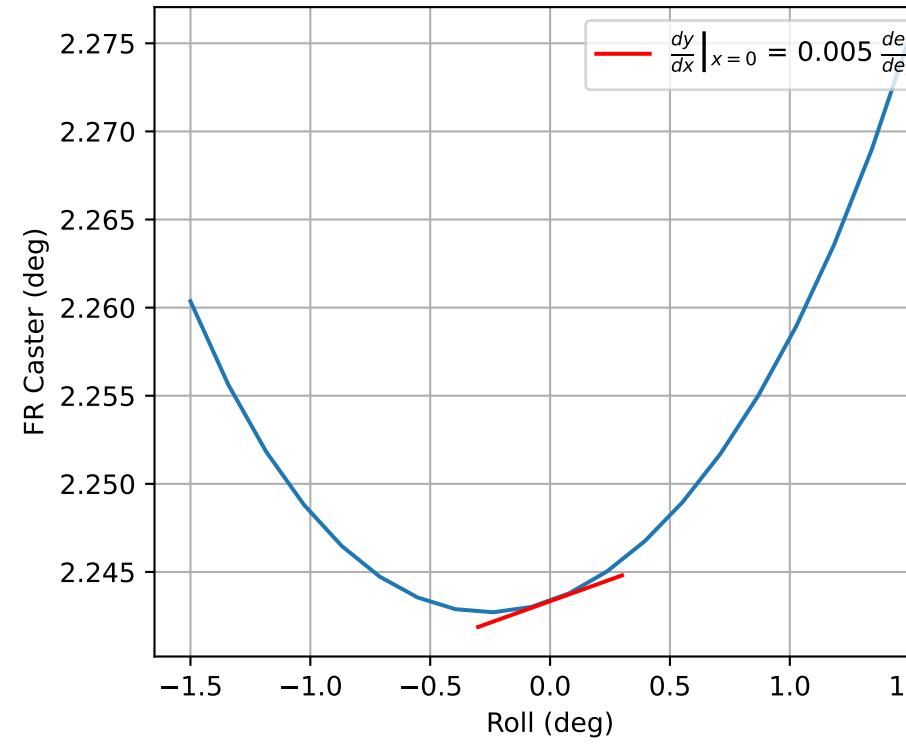
$$f(x) = a_3x^3 + a_2x^2 + a_1x + a_0$$

FL	$f(x) = -0.0x^3 + 0.0x^2 + 0.0x + -0.0$
FR	$f(x) = 0.0x^3 + 0.0x^2 + -0.0x + -0.0$
RL	$f(x) = 0.0x^3 + -0.0x^2 + -0.0x + 0.0$
RR	$f(x) = -0.0x^3 + -0.0x^2 + 0.0x + 0.0$

FL Roll Caster



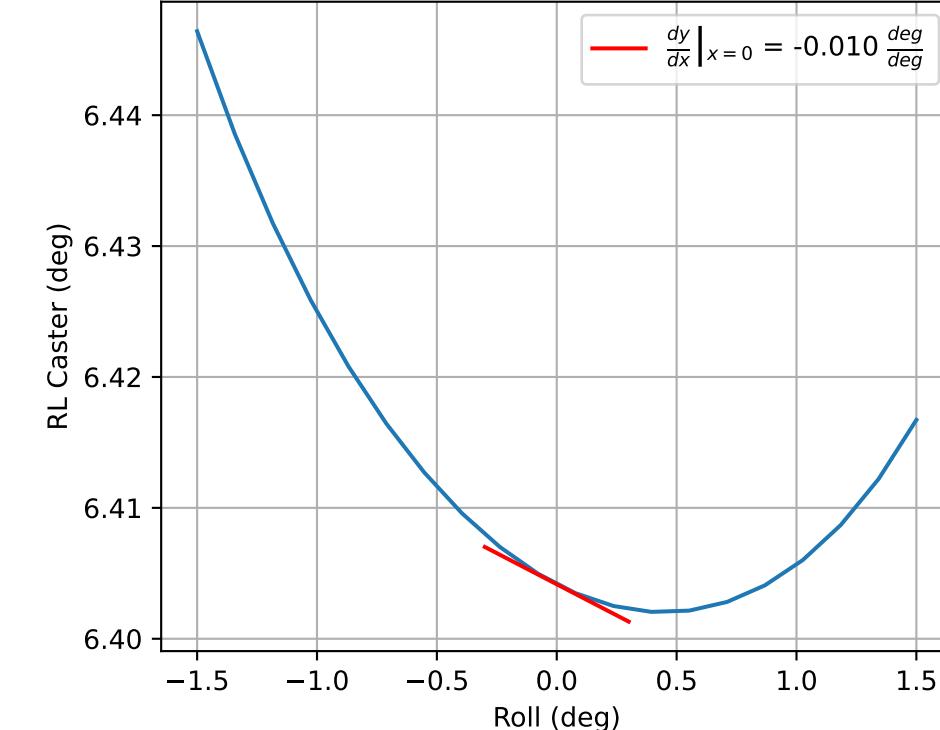
FR Roll Caster

**Linear Fit**

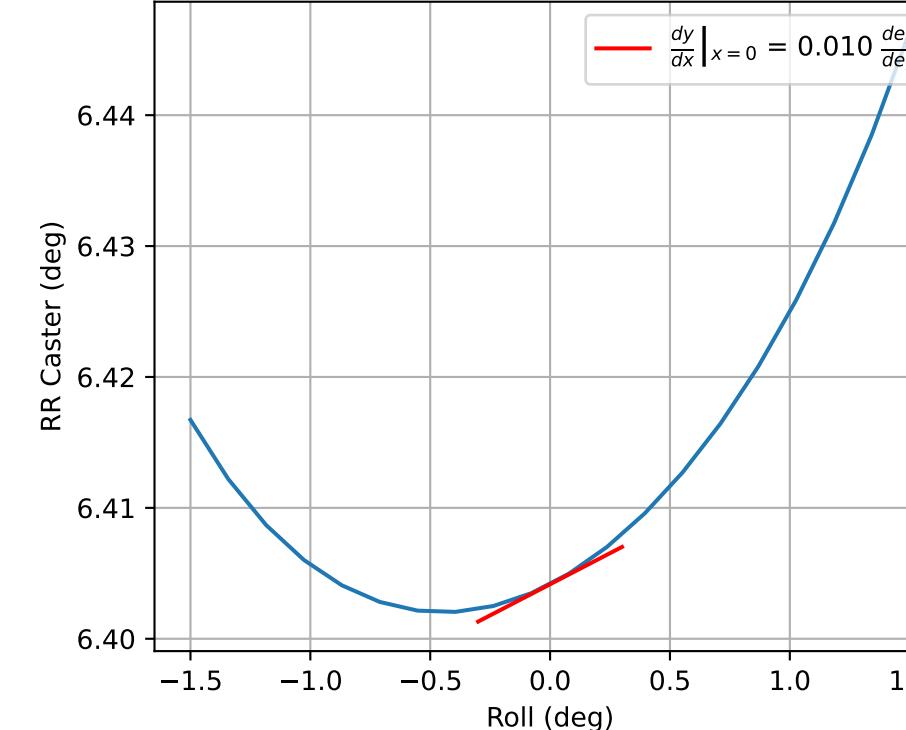
$$f(x) = a_1x + a_0$$

FL	$f(x) = -0.005x + 2.243$
FR	$f(x) = 0.005x + 2.243$
RL	$f(x) = -0.01x + 6.404$
RR	$f(x) = 0.01x + 6.404$

RL Roll Caster



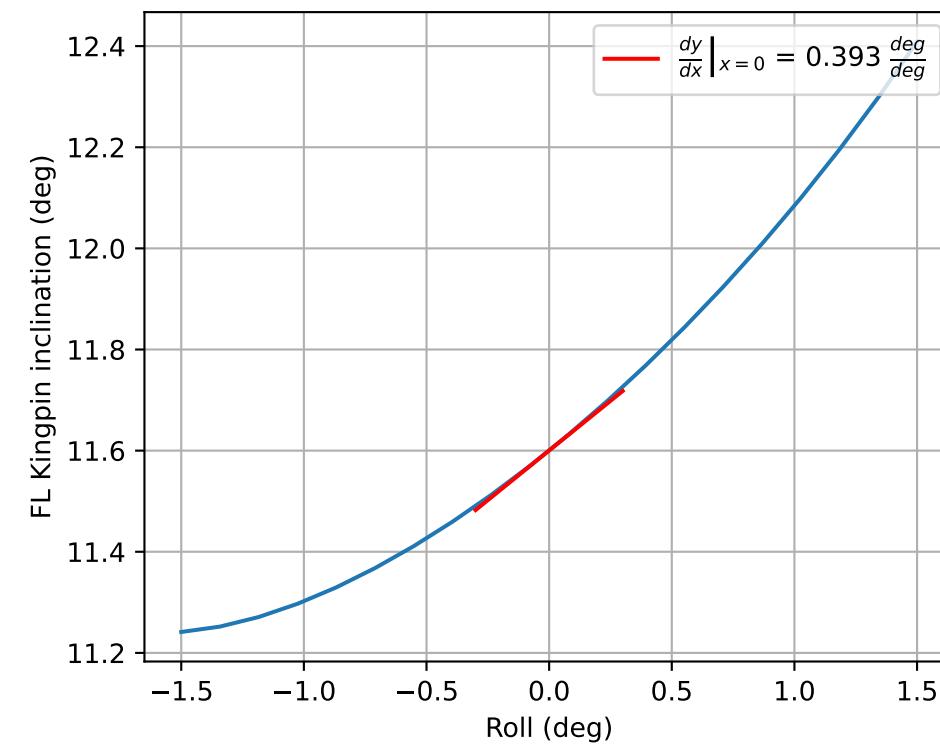
RR Roll Caster

**Cubic Fit**

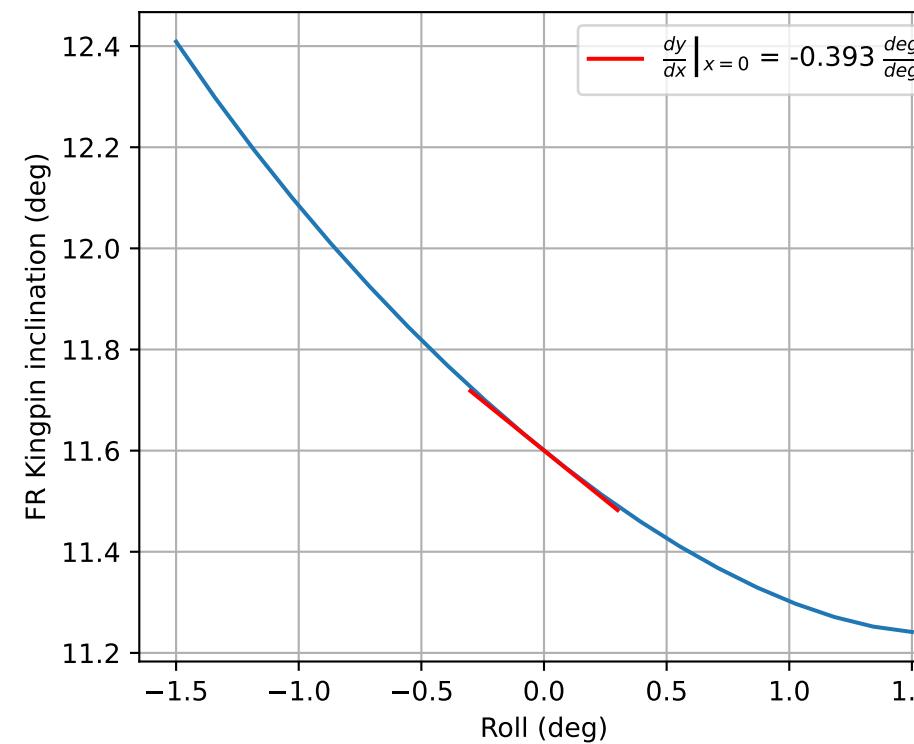
$$f(x) = a_3x^3 + a_2x^2 + a_1x + a_0$$

FL	$f(x) = -0.0x^3 + 0.011x^2 + -0.005x + 2.243$
FR	$f(x) = 0.0x^3 + 0.011x^2 + 0.005x + 2.243$
RL	$f(x) = -0.0x^3 + 0.012x^2 + -0.009x + 6.404$
RR	$f(x) = 0.0x^3 + 0.012x^2 + 0.009x + 6.404$

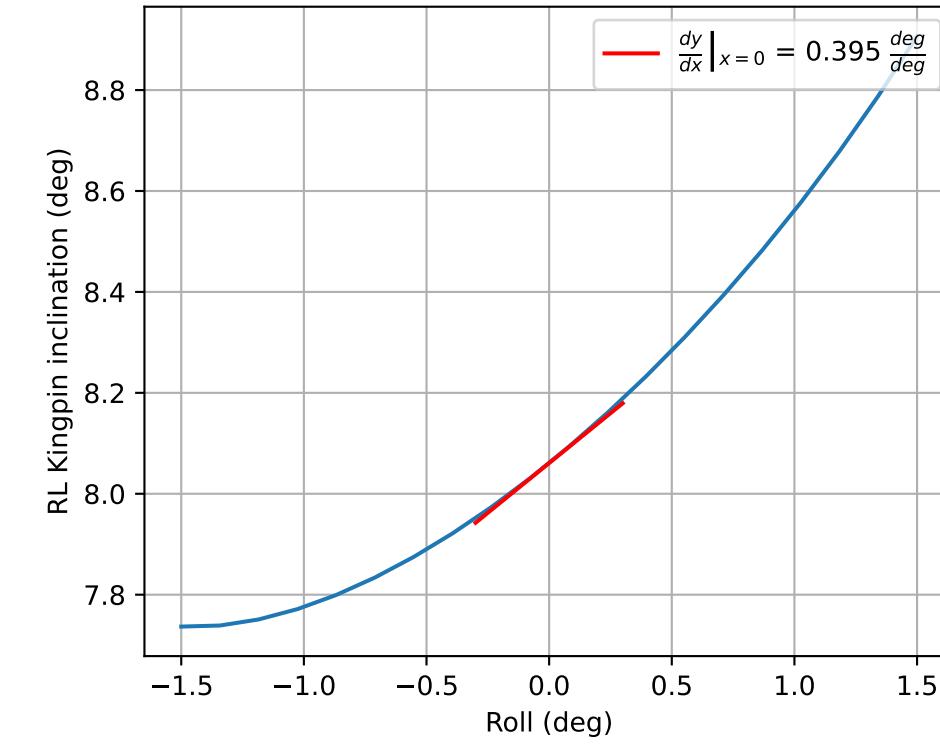
FL Roll KPI



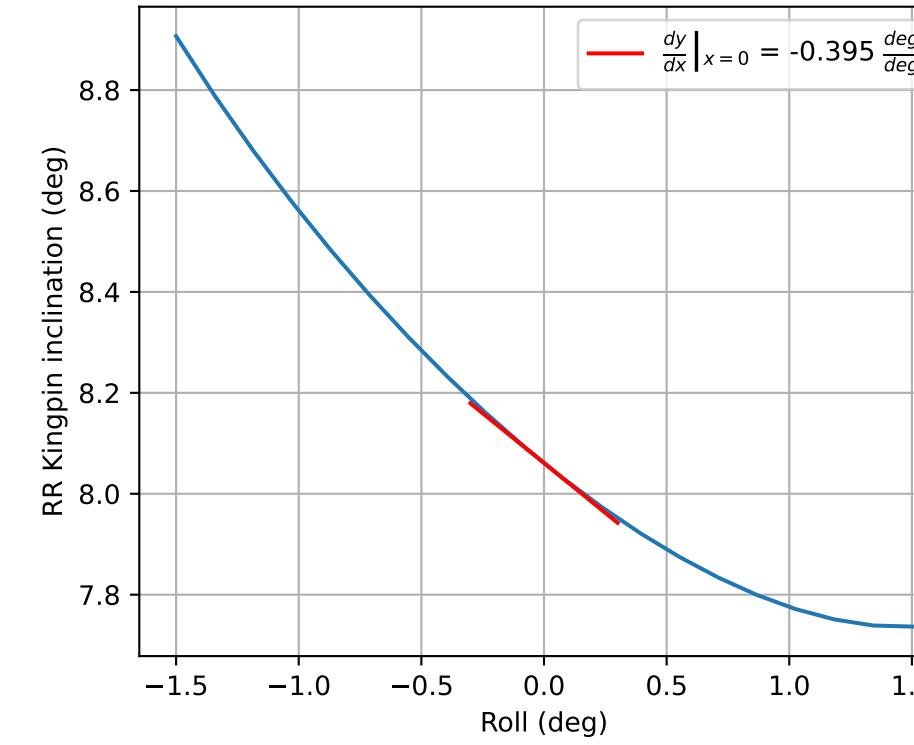
FR Roll KPI



RL Roll KPI



RR Roll KPI

**Linear Fit**

$$f(x) = a_1x + a_0$$

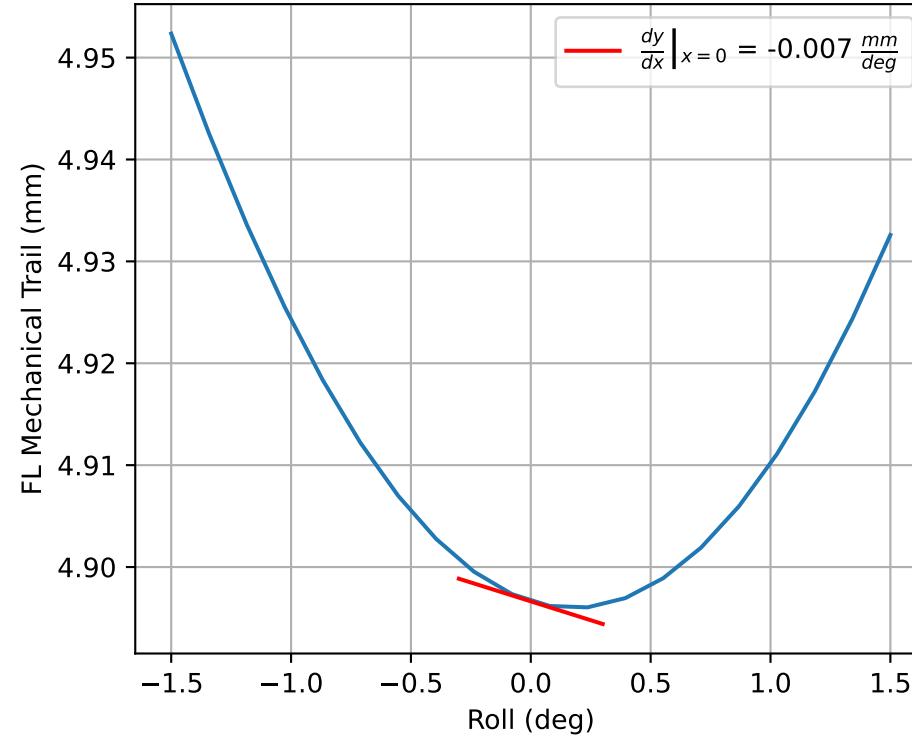
FL	$f(x) = 0.393x + 11.6$
FR	$f(x) = -0.393x + 11.6$
RL	$f(x) = 0.395x + 8.061$
RR	$f(x) = -0.395x + 8.061$

Cubic Fit

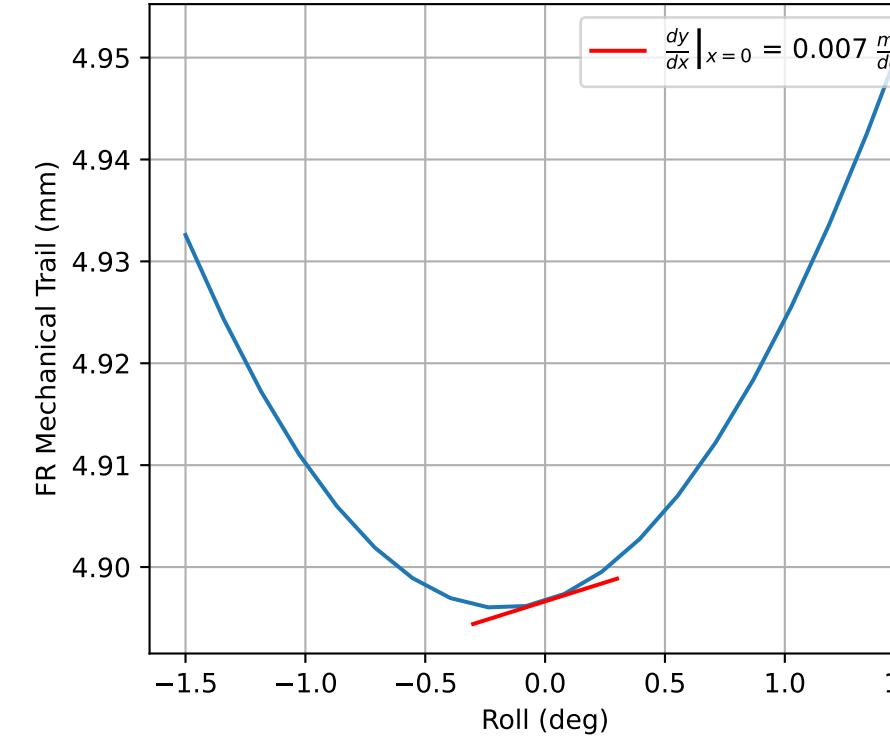
$$f(x) = a_3x^3 + a_2x^2 + a_1x + a_0$$

FL	$f(x) = -0.002x^3 + 0.099x^2 + 0.393x + 11.597$
FR	$f(x) = 0.002x^3 + 0.099x^2 + -0.393x + 11.597$
RL	$f(x) = -0.002x^3 + 0.115x^2 + 0.395x + 8.058$
RR	$f(x) = 0.002x^3 + 0.115x^2 + -0.395x + 8.058$

FL Roll Mechanical Trail



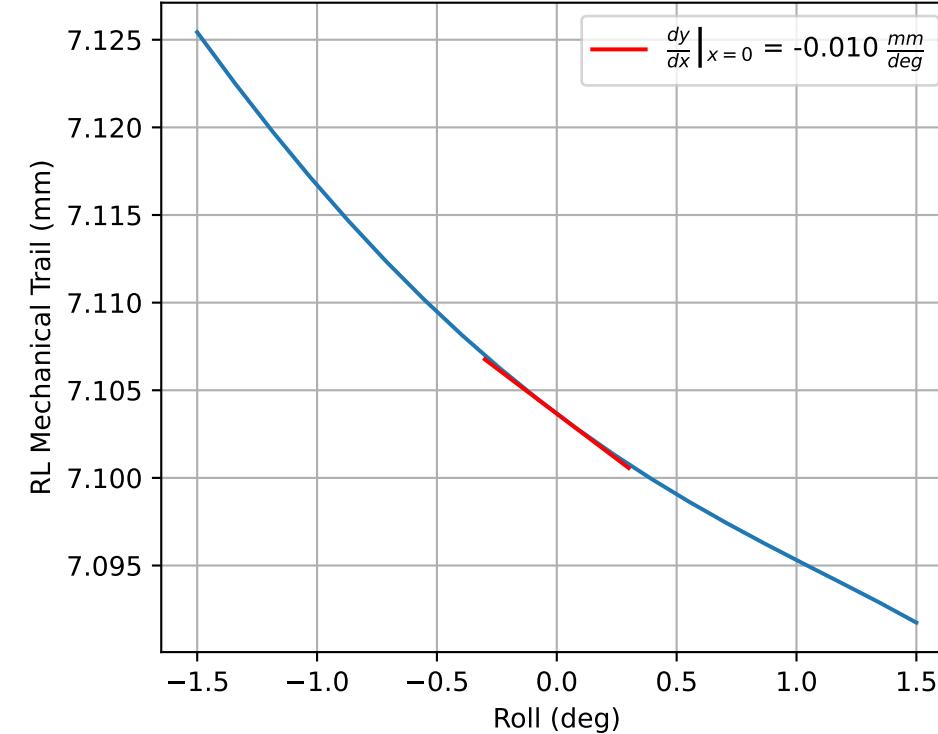
FR Roll Mechanical Trail

**Linear Fit**

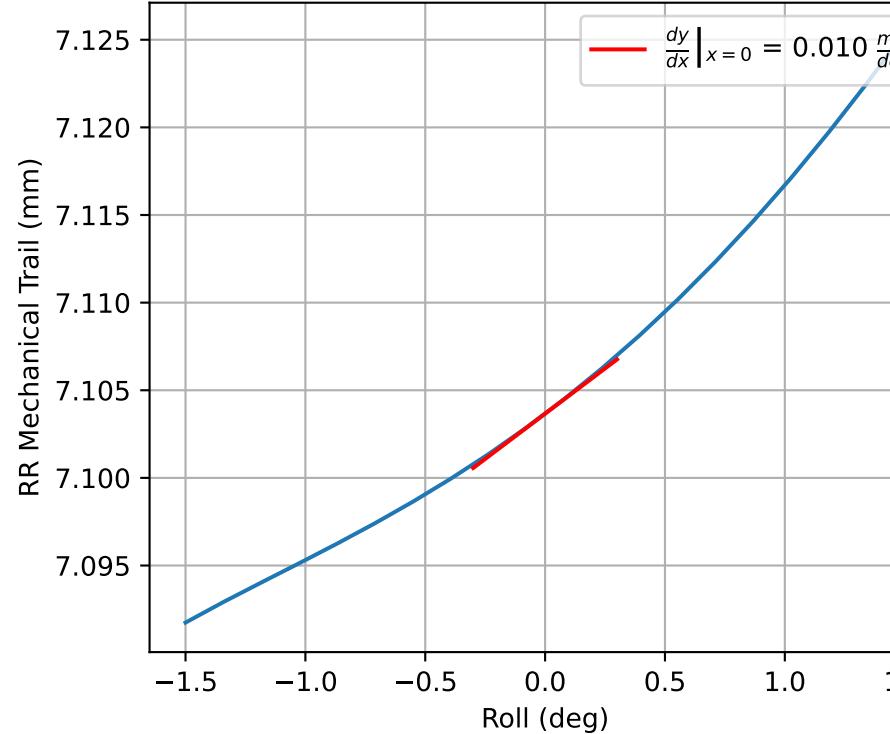
$$f(x) = a_1x + a_0$$

FL	$f(x) = -0.007x + 4.897$
FR	$f(x) = 0.007x + 4.897$
RL	$f(x) = -0.01x + 7.104$
RR	$f(x) = 0.01x + 7.104$

RL Roll Mechanical Trail

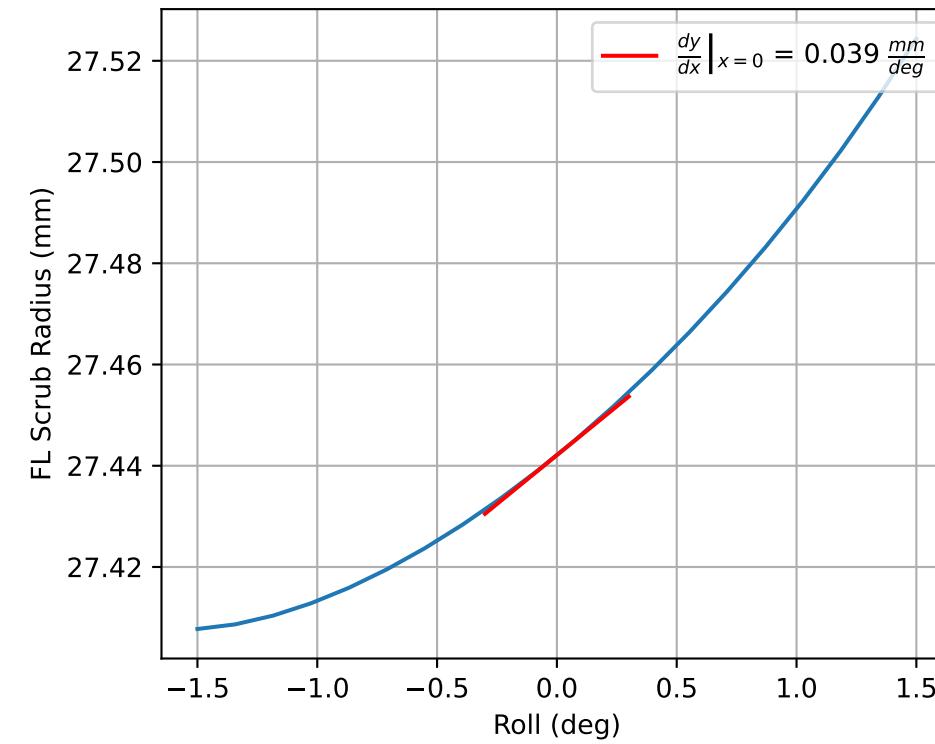
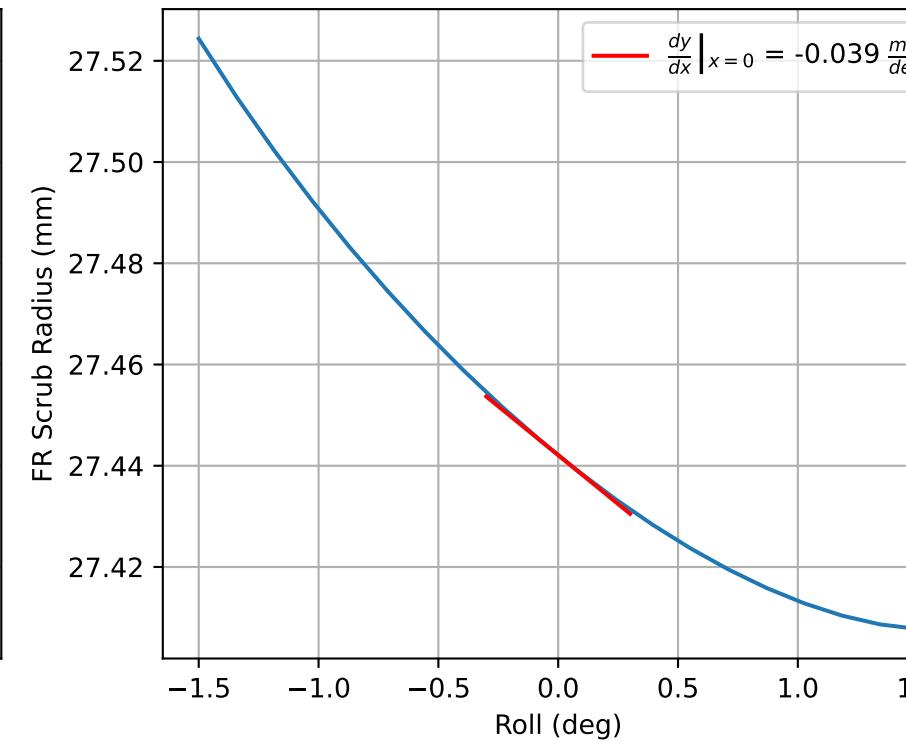


RR Roll Mechanical Trail

**Cubic Fit**

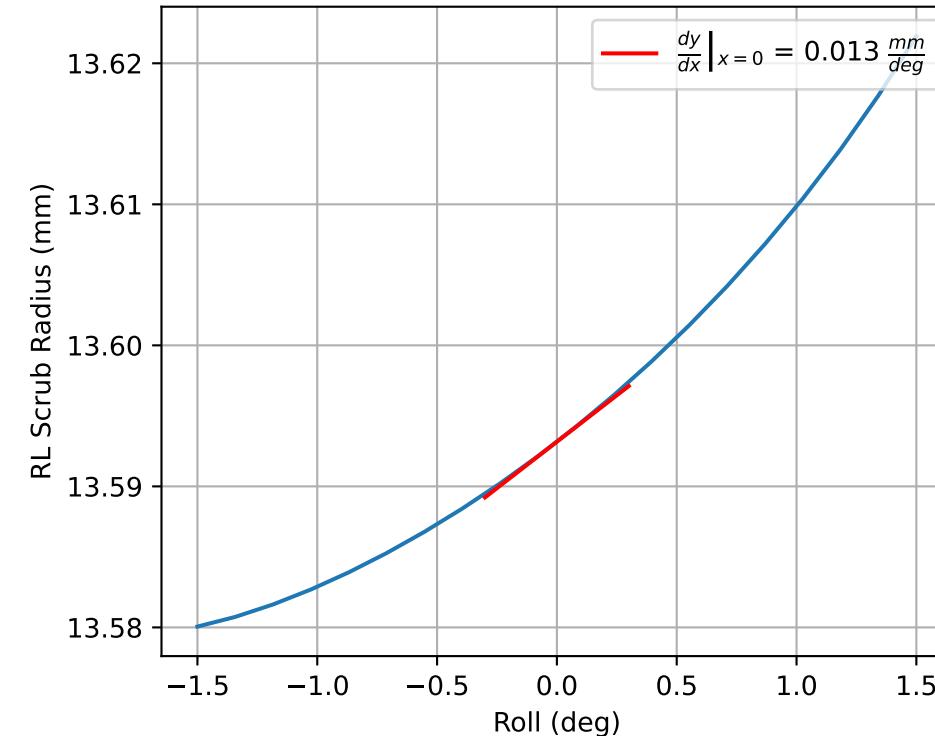
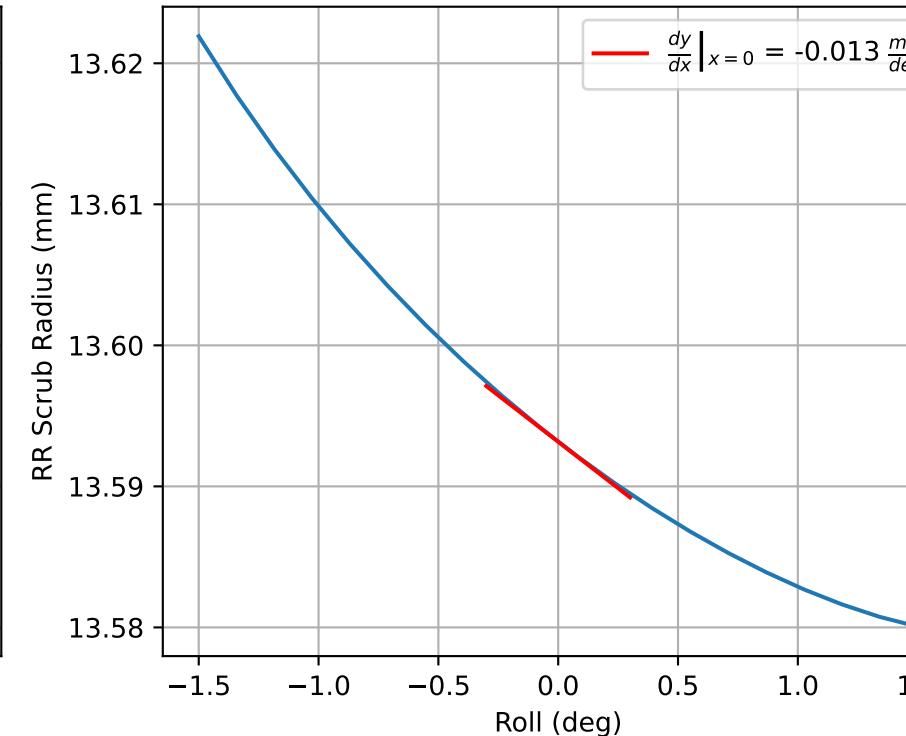
$$f(x) = a_3x^3 + a_2x^2 + a_1x + a_0$$

FL	$f(x) = 0.0x^3 + 0.02x^2 + -0.007x + 4.897$
FR	$f(x) = -0.0x^3 + 0.02x^2 + 0.007x + 4.897$
RL	$f(x) = -0.0x^3 + 0.002x^2 + -0.01x + 7.104$
RR	$f(x) = 0.0x^3 + 0.002x^2 + 0.01x + 7.104$

FL Roll Scrub Radius**FR Roll Scrub Radius****Linear Fit**

$$f(x) = a_1x + a_0$$

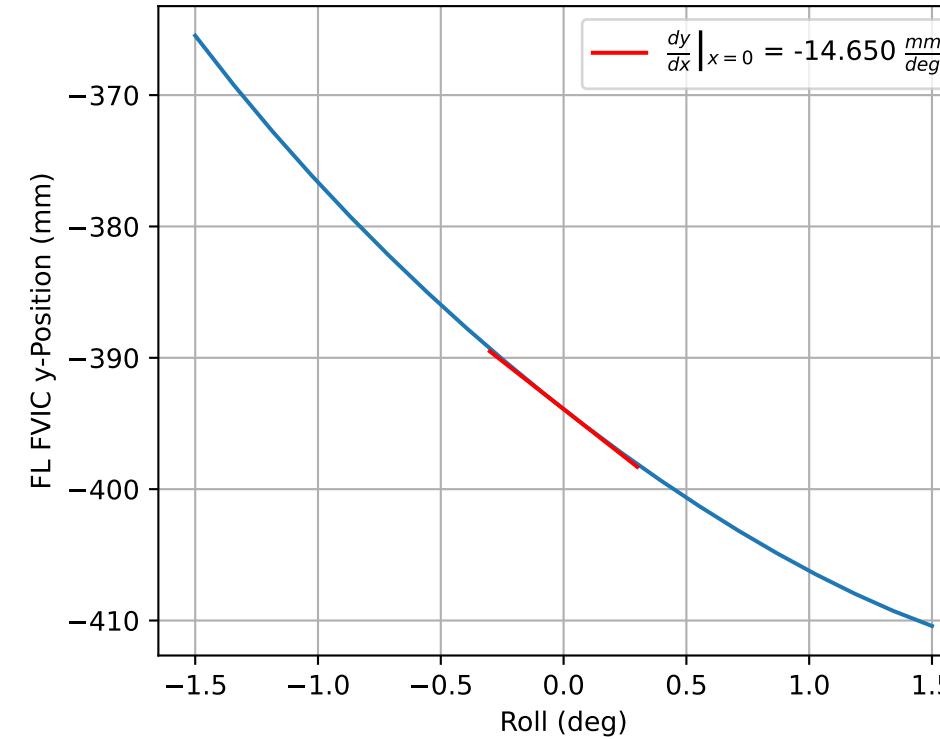
FL	$f(x) = 0.039x + 27.442$
FR	$f(x) = -0.039x + 27.442$
RL	$f(x) = 0.013x + 13.593$
RR	$f(x) = -0.013x + 13.593$

RL Roll Scrub Radius**RR Roll Scrub Radius****Cubic Fit**

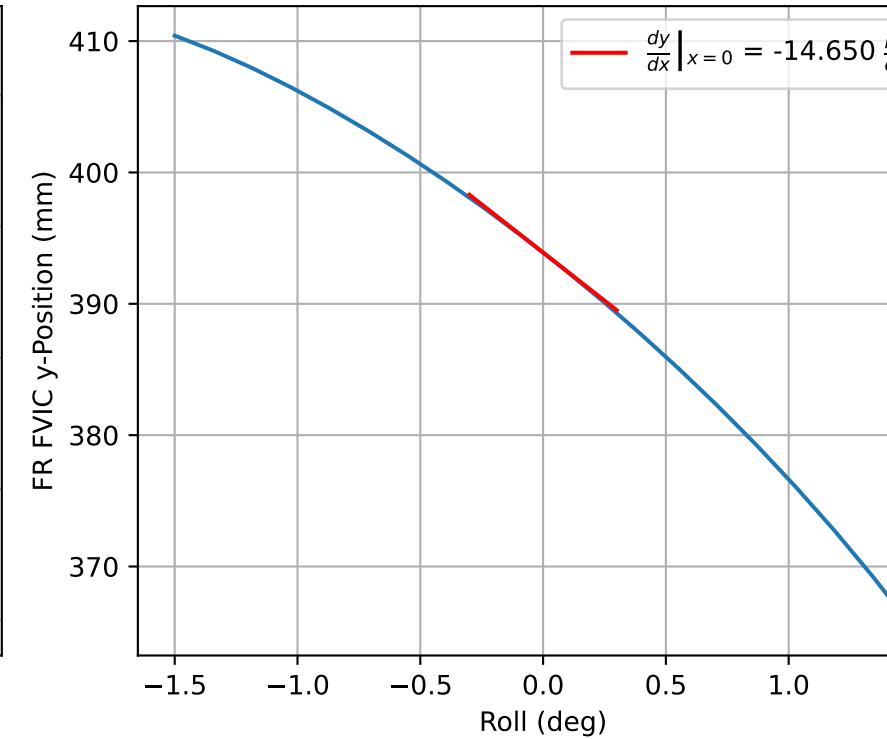
$$f(x) = a_3x^3 + a_2x^2 + a_1x + a_0$$

FL	$f(x) = 0.0x^3 + 0.011x^2 + 0.039x + 27.442$
FR	$f(x) = -0.0x^3 + 0.011x^2 + -0.039x + 27.442$
RL	$f(x) = 0.0x^3 + 0.003x^2 + 0.013x + 13.593$
RR	$f(x) = -0.0x^3 + 0.003x^2 + -0.013x + 13.593$

FL Roll FVIC y-Migration



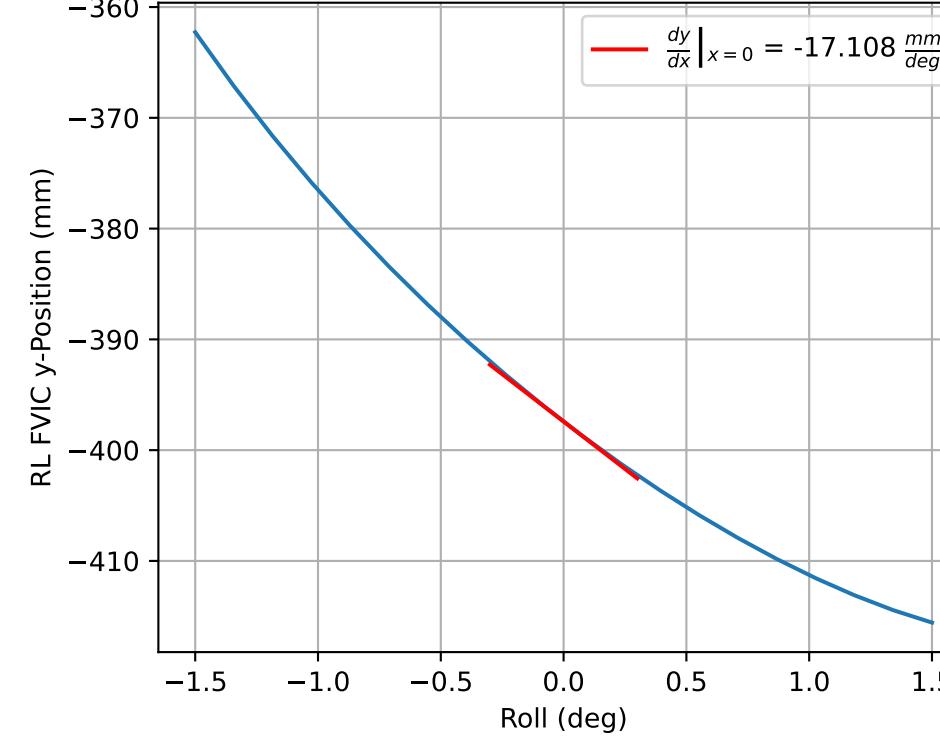
FR Roll FVIC y-Migration

**Linear Fit**

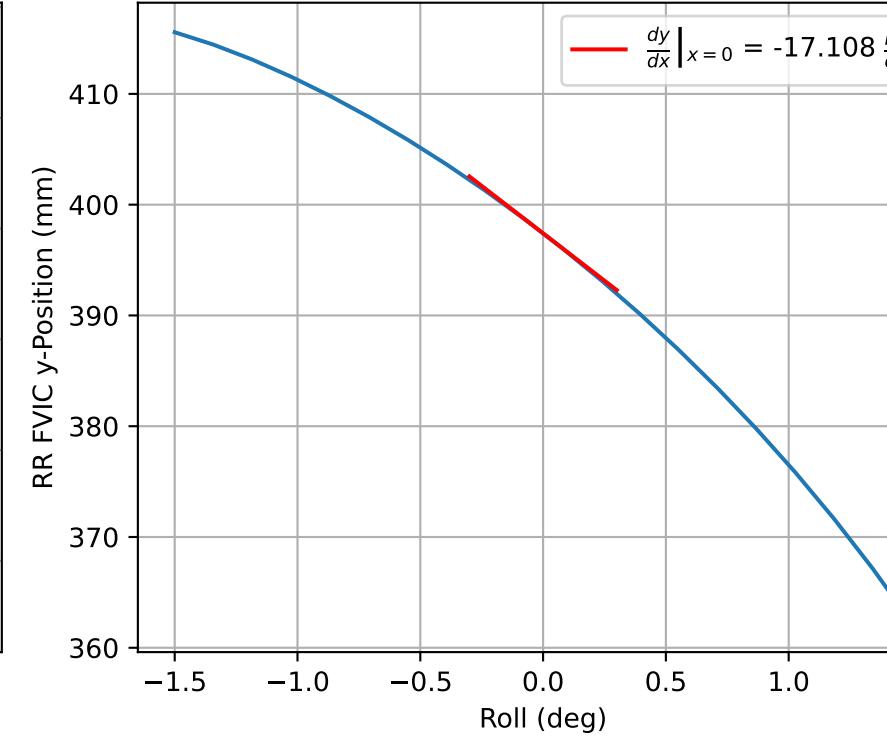
$$f(x) = a_1x + a_0$$

FL	$f(x) = -14.65x - 393.907$
FR	$f(x) = -14.65x + 393.907$
RL	$f(x) = -17.108x - 397.417$
RR	$f(x) = -17.108x + 397.417$

RL Roll FVIC y-Migration



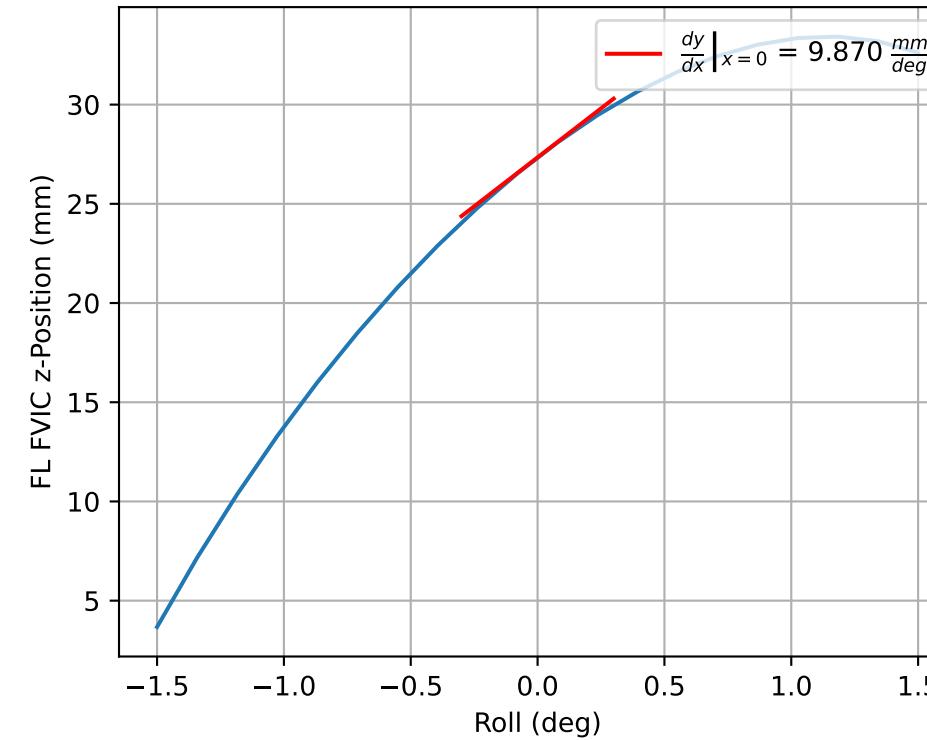
RR Roll FVIC y-Migration

**Cubic Fit**

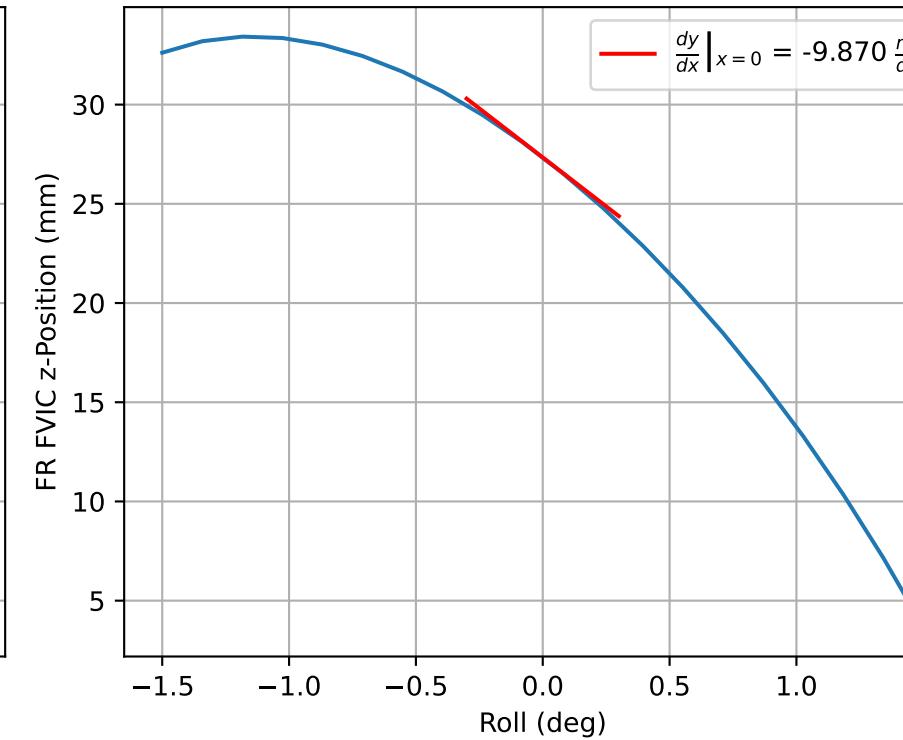
$$f(x) = a_3x^3 + a_2x^2 + a_1x + a_0$$

FL	$f(x) = -0.151x^3 + 2.627x^2 - 14.639x - 393.977$
FR	$f(x) = -0.151x^3 - 2.627x^2 - 14.639x + 393.977$
RL	$f(x) = -0.299x^3 + 3.742x^2 - 17.085x - 397.519$
RR	$f(x) = -0.299x^3 - 3.742x^2 - 17.085x + 397.519$

FL Roll FVIC z-Migration



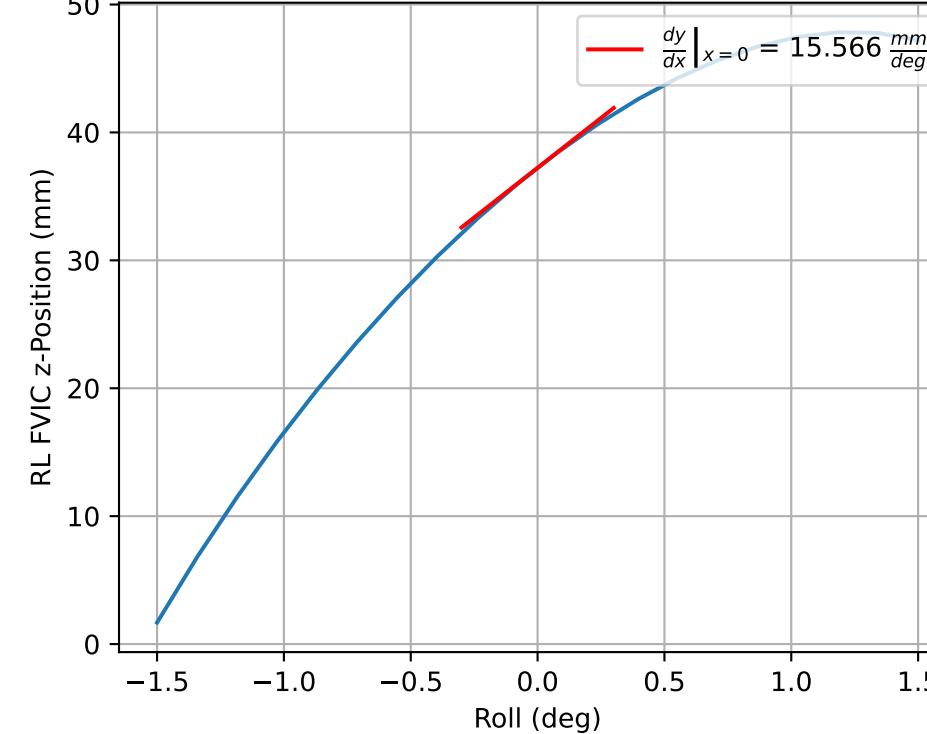
FR Roll FVIC z-Migration

**Linear Fit**

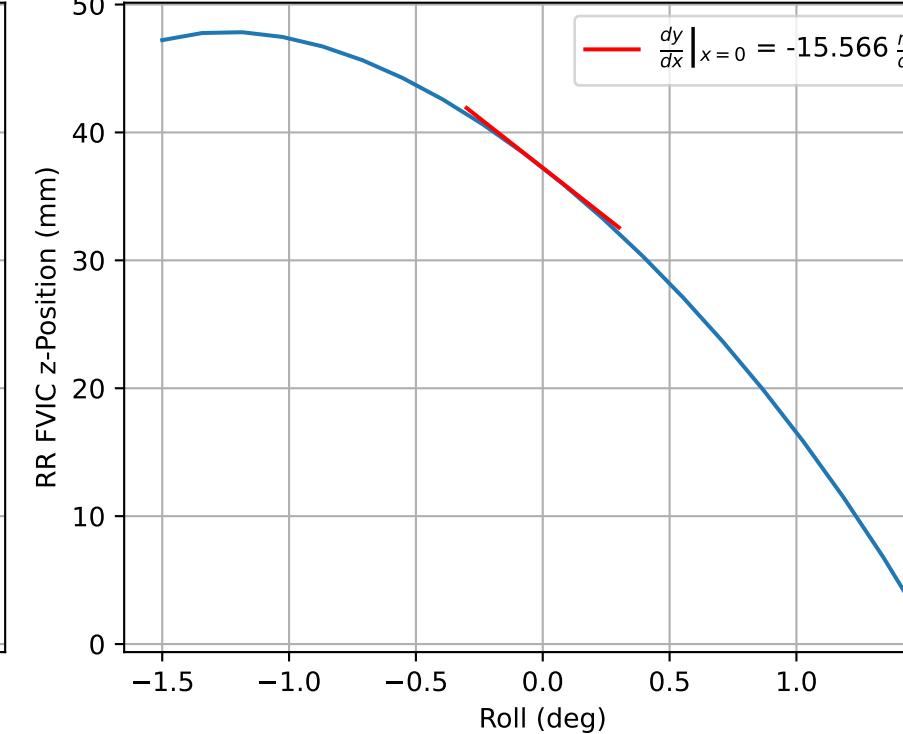
$$f(x) = a_1x + a_0$$

FL	$f(x) = 9.87x + 27.34$
FR	$f(x) = -9.87x + 27.34$
RL	$f(x) = 15.566x + 37.239$
RR	$f(x) = -15.566x + 37.239$

RL Roll FVIC z-Migration

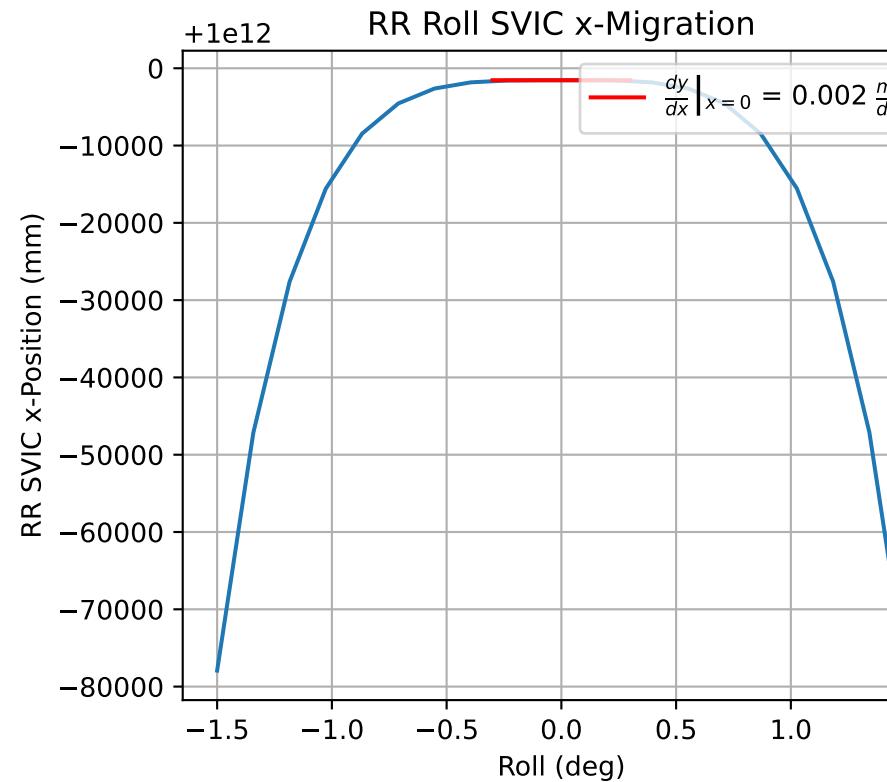
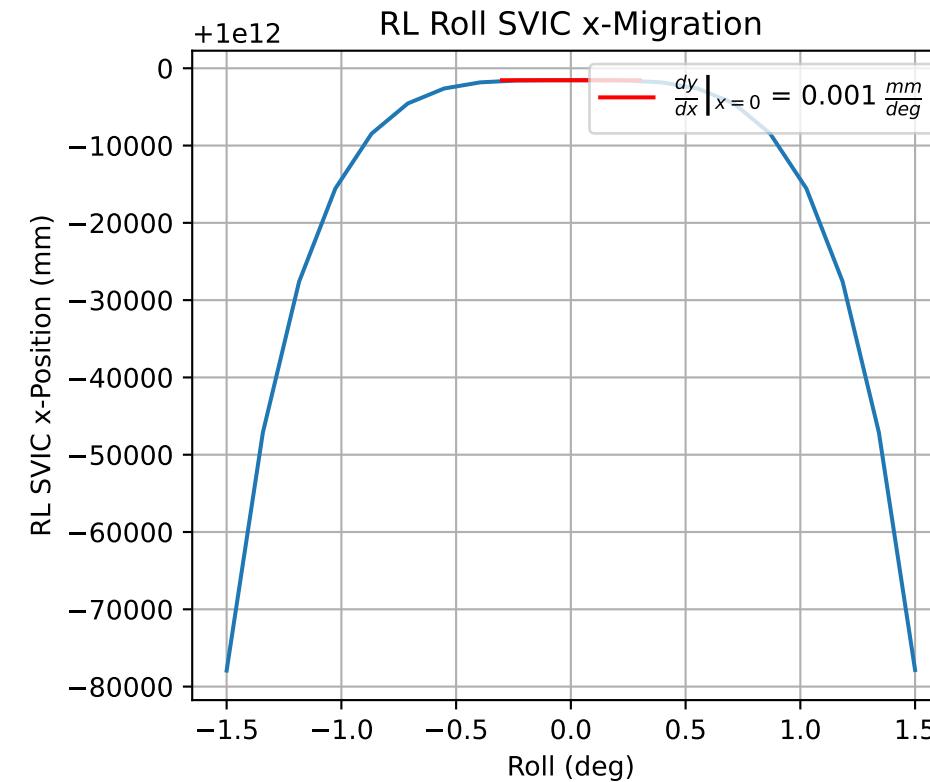
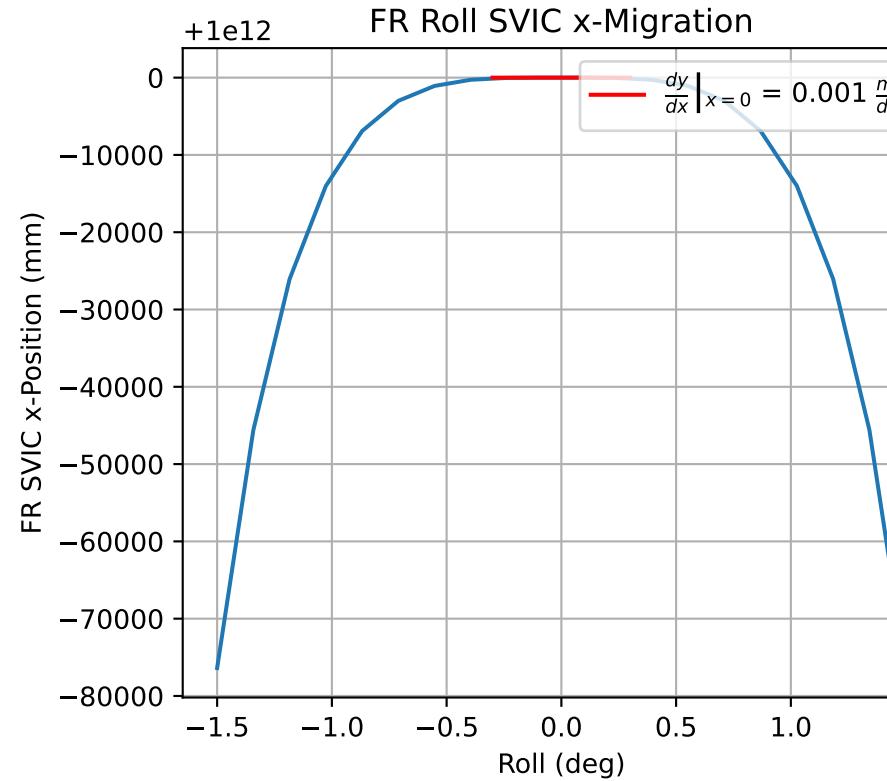
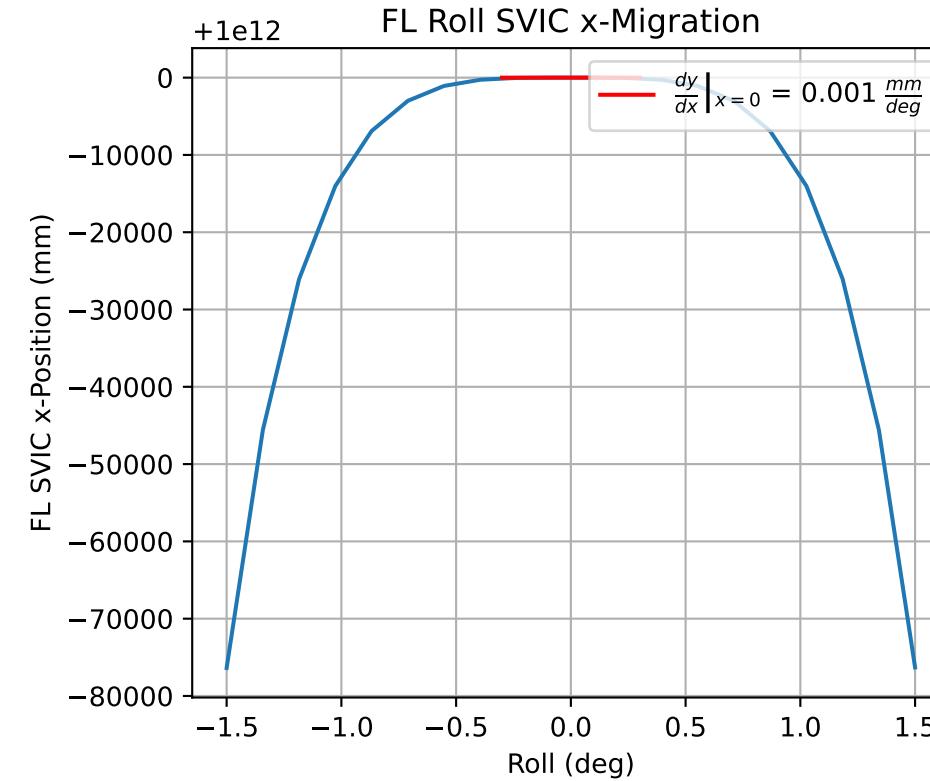


RR Roll FVIC z-Migration

**Cubic Fit**

$$f(x) = a_3x^3 + a_2x^2 + a_1x + a_0$$

FL	$f(x) = -0.102x^3 + -4.049x^2 + 9.879x + 27.453$
FR	$f(x) = 0.102x^3 + -4.049x^2 + -9.879x + 27.453$
RL	$f(x) = -0.177x^3 + -5.631x^2 + 15.581x + 37.399$
RR	$f(x) = 0.177x^3 + -5.631x^2 + -15.581x + 37.399$



Linear Fit

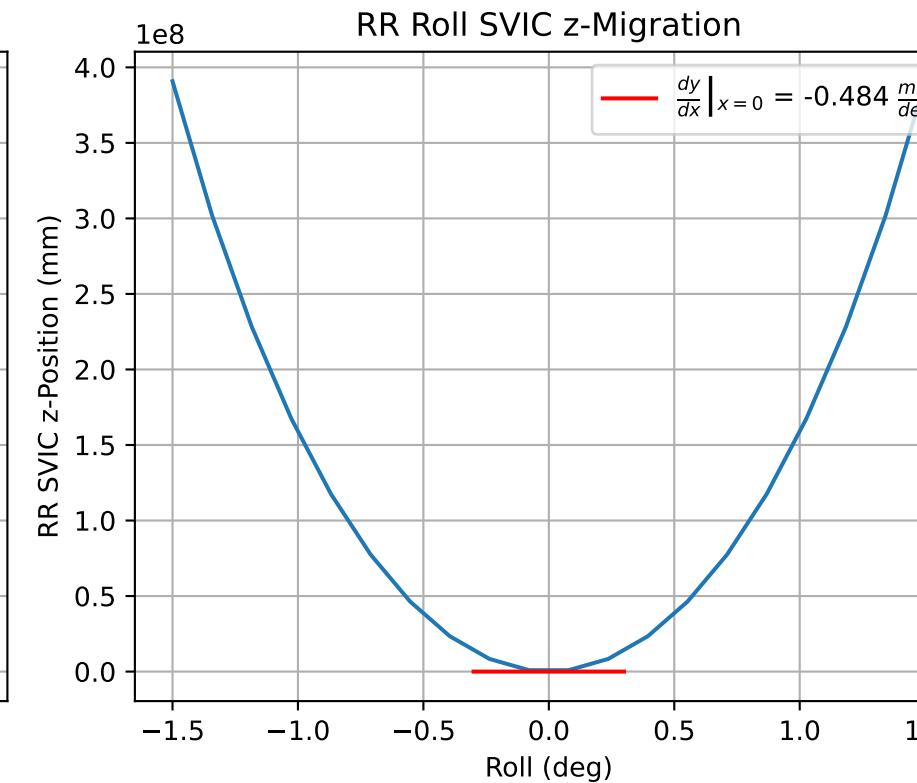
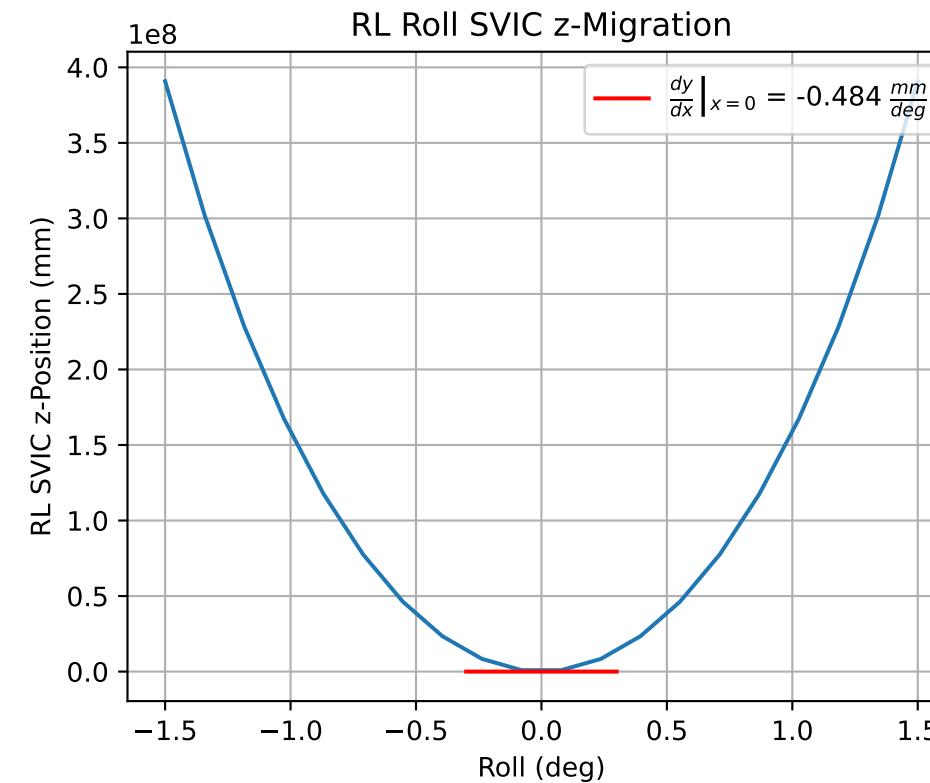
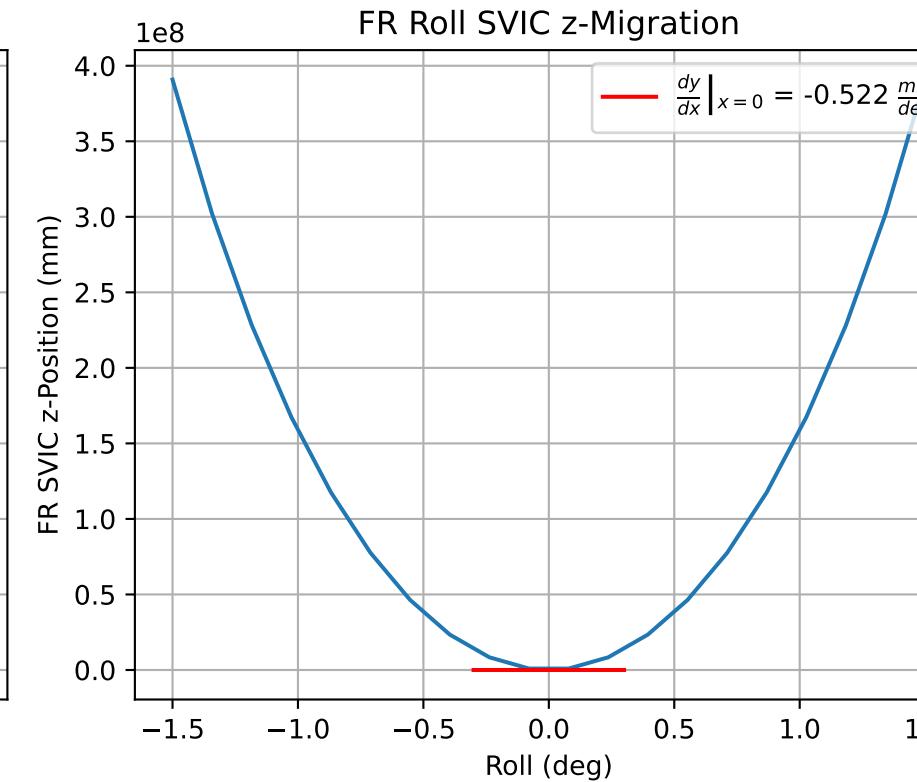
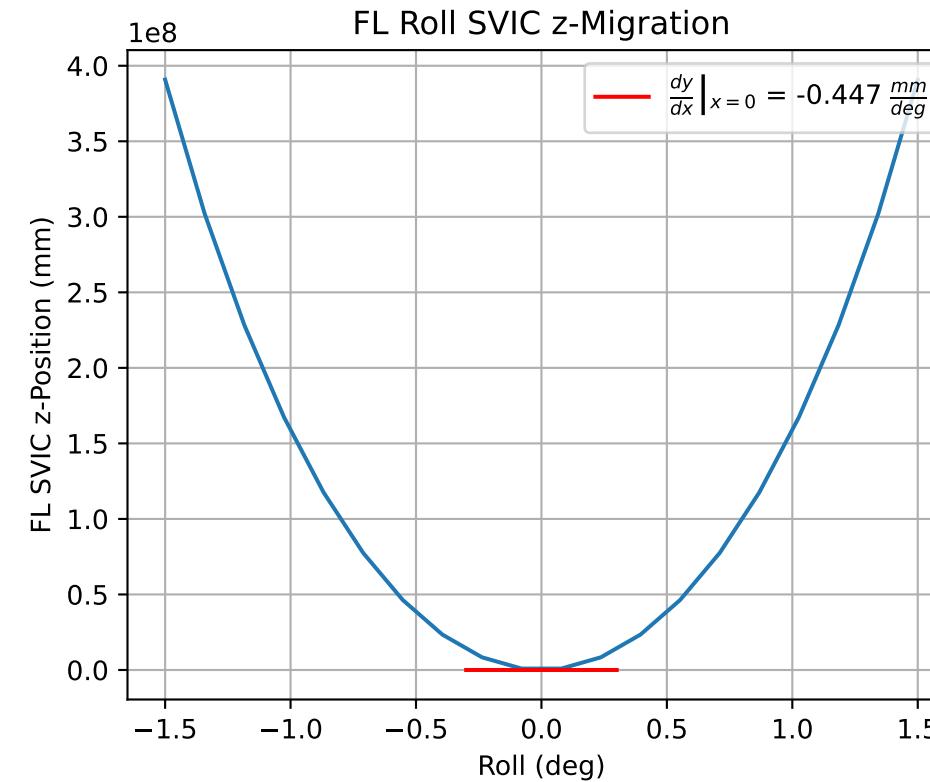
$$f(x) = a_1x + a_0$$

FL	$f(x) = 0.001x + 1.000e+12$
FR	$f(x) = 0.001x + 1.000e+12$
RL	$f(x) = 0.001x + 1.000e+12$
RR	$f(x) = 0.002x + 1.000e+12$

Cubic Fit

$$f(x) = a_3x^3 + a_2x^2 + a_1x + a_0$$

FL	$f(x) = 12.858x^3 + -30904.774x^2 + -8.097x + 1.0e+12$
FR	$f(x) = 12.858x^3 + -30904.774x^2 + -8.097x + 1.0e+12$
RL	$f(x) = 12.86x^3 + -30904.78x^2 + -8.097x + 1.0e+12$
RR	$f(x) = 12.856x^3 + -30904.78x^2 + -8.096x + 1.0e+12$



Linear Fit

$$f(x) = a_1x + a_0$$

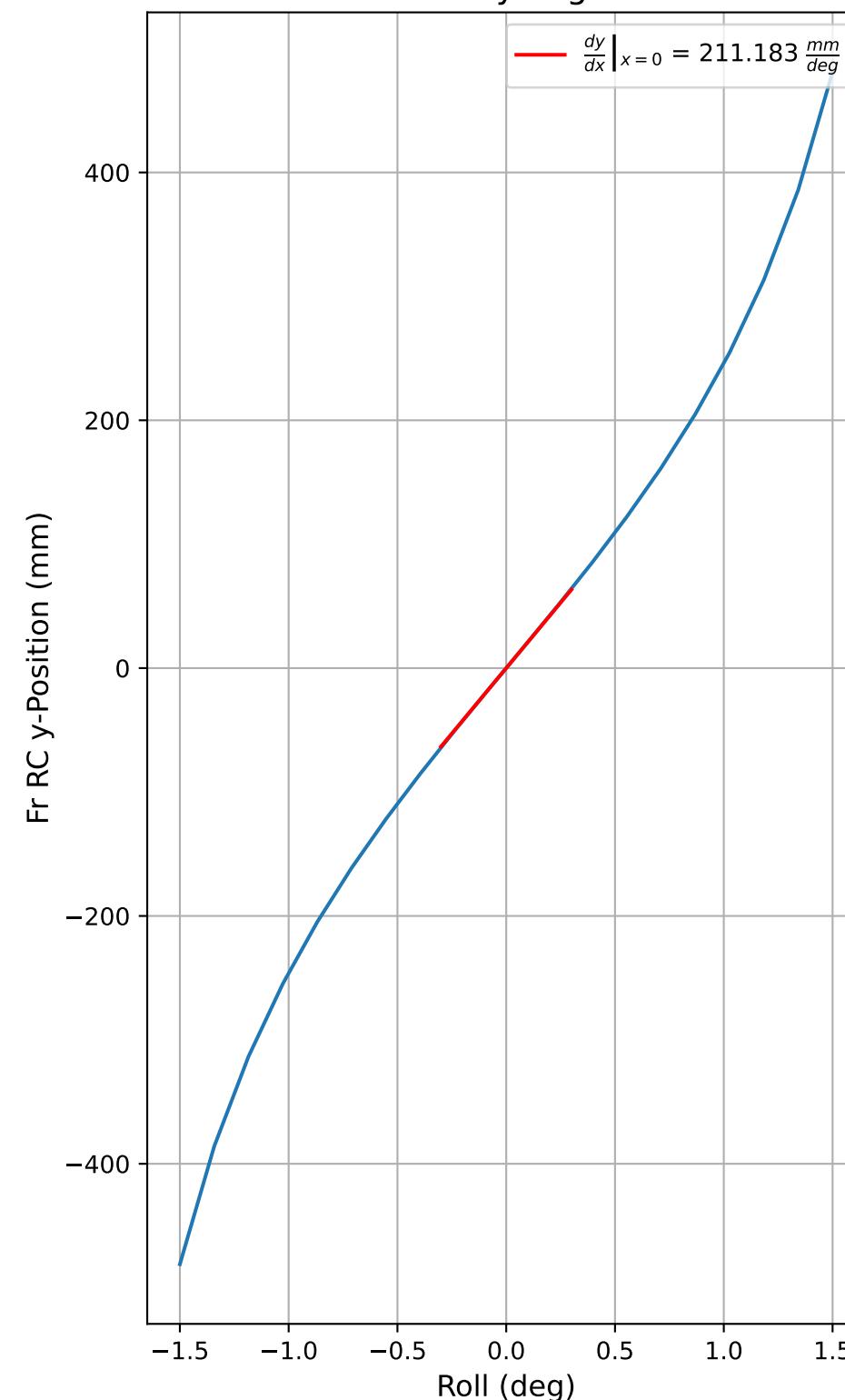
FL	$f(x) = -0.447x + -118.161$
FR	$f(x) = -0.522x + -118.161$
RL	$f(x) = -0.484x + -118.13$
RR	$f(x) = -0.484x + -118.13$

Cubic Fit

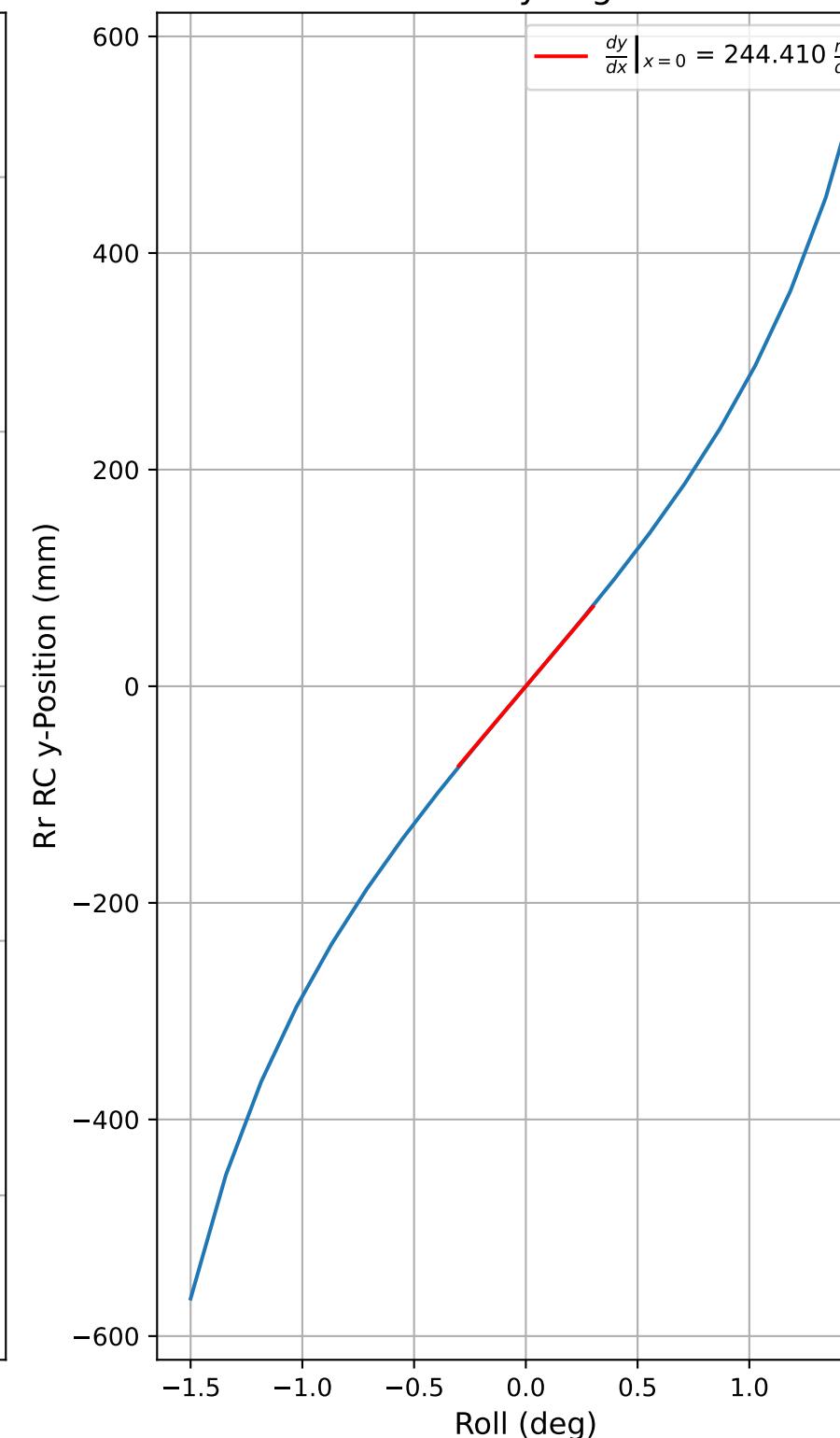
$$f(x) = a_3x^3 + a_2x^2 + a_1x + a_0$$

$f(\text{FL}) = -29173.839x^3 + 171559310.923x^2 + 7834.007x + -6.0$
$f(\text{FR}) = -29173.846x^3 + 171559310.923x^2 + 7833.933x + -6.0$
$f(\text{RL}) = -29173.838x^3 + 171559310.929x^2 + 7833.97x + -6.0$
$f(\text{RR}) = -29173.847x^3 + 171559310.929x^2 + 7833.97x + -6.0$

Fr Roll RC y-Migration



Rr Roll RC y-Migration



Linear Fit

$$f(x) = a_1x + a_0$$

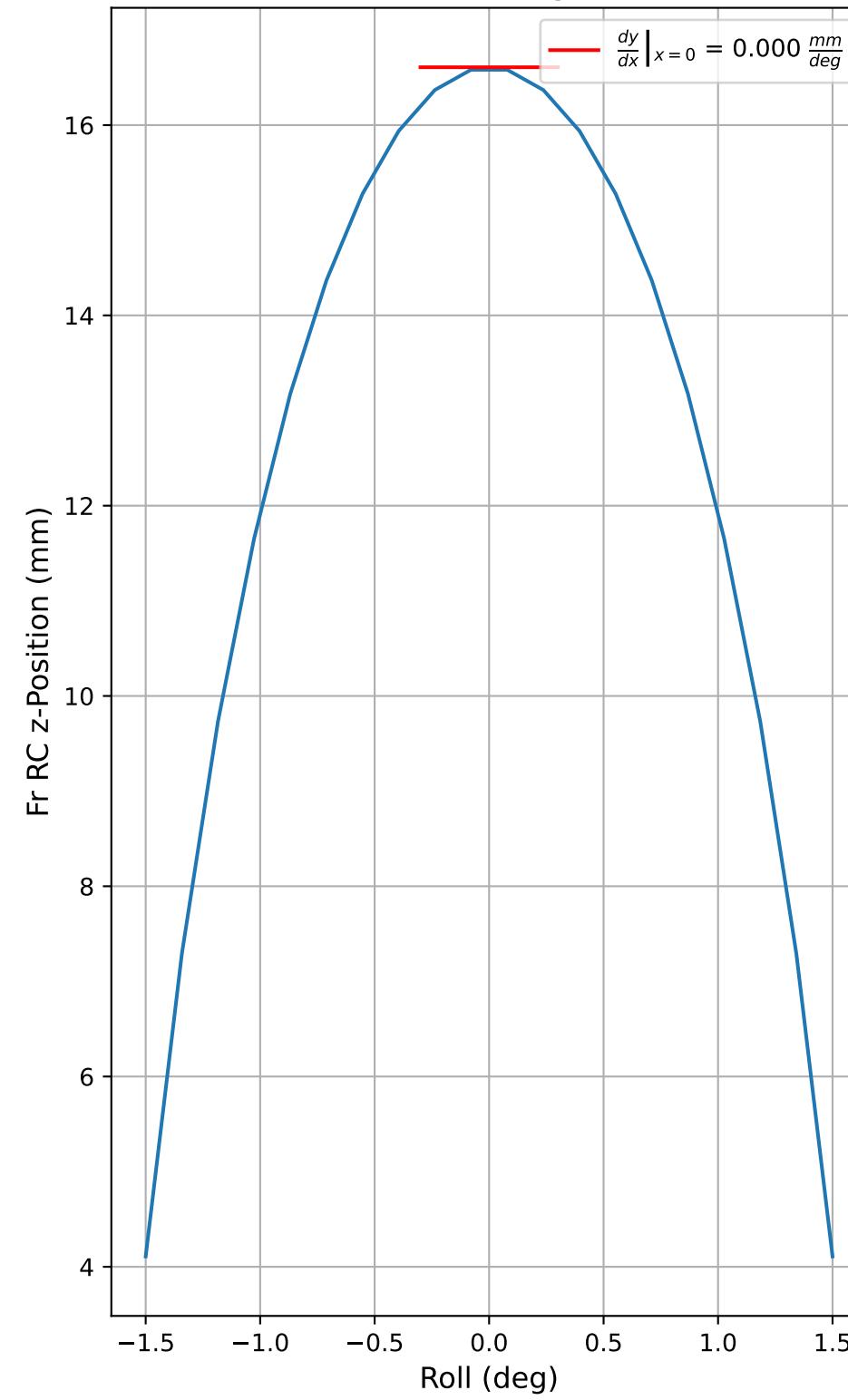
Fr	$f(x) = 211.183x + 0.0$
Rr	$f(x) = 244.41x + 0.0$

Cubic Fit

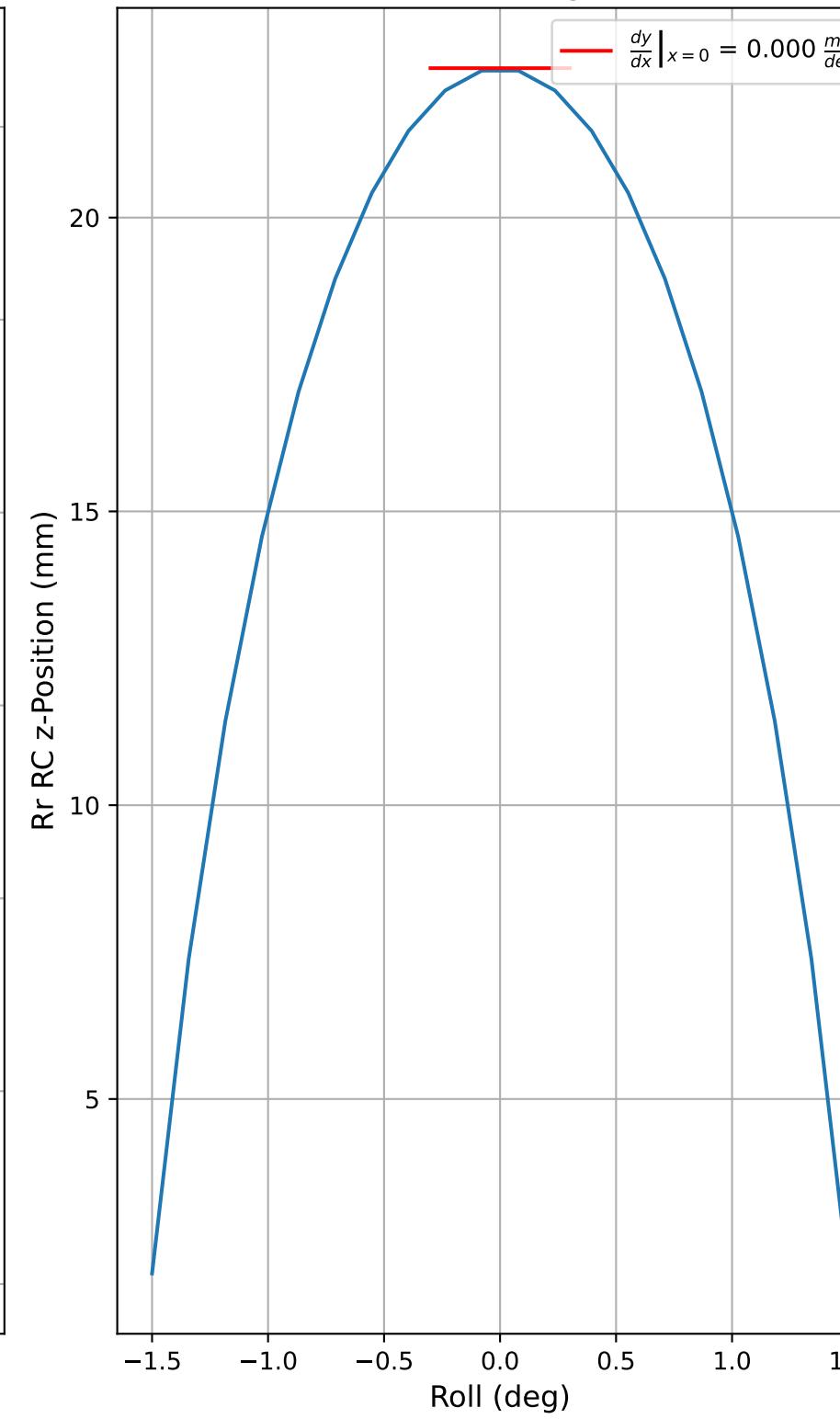
$$f(x) = a_3x^3 + a_2x^2 + a_1x + a_0$$

Fr	$f(x) = 53.311x^3 + 0.0x^2 + 195.565x + -0.0$
Rr	$f(x) = 64.641x^3 + -0.0x^2 + 224.924x + 0.0$

Fr Roll RC z-Migration



Rr Roll RC z-Migration



Linear Fit

$$f(x) = a_1x + a_0$$

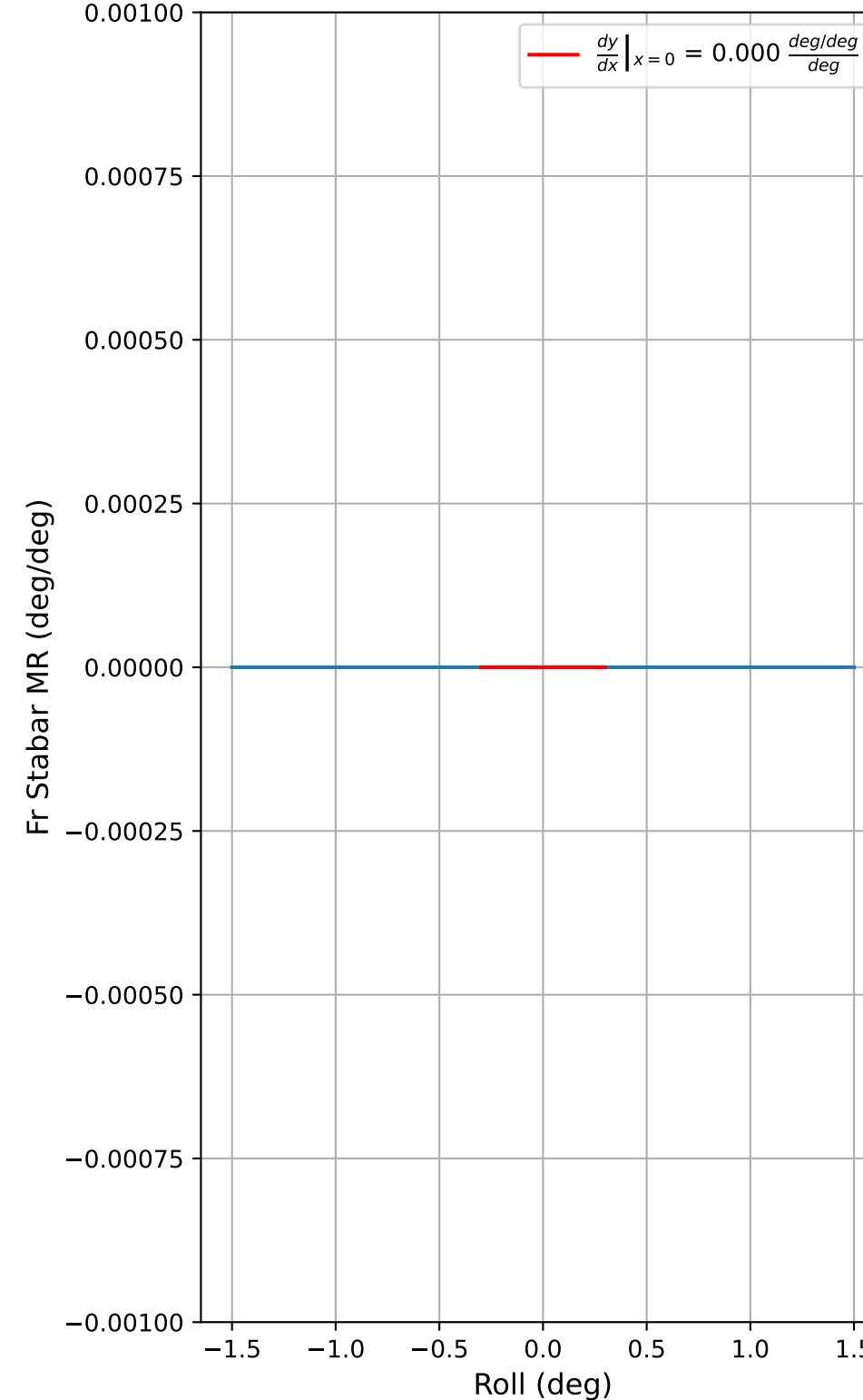
Fr	$f(x) = 0.0x + 16.608$
Rr	$f(x) = 0.0x + 22.543$

Cubic Fit

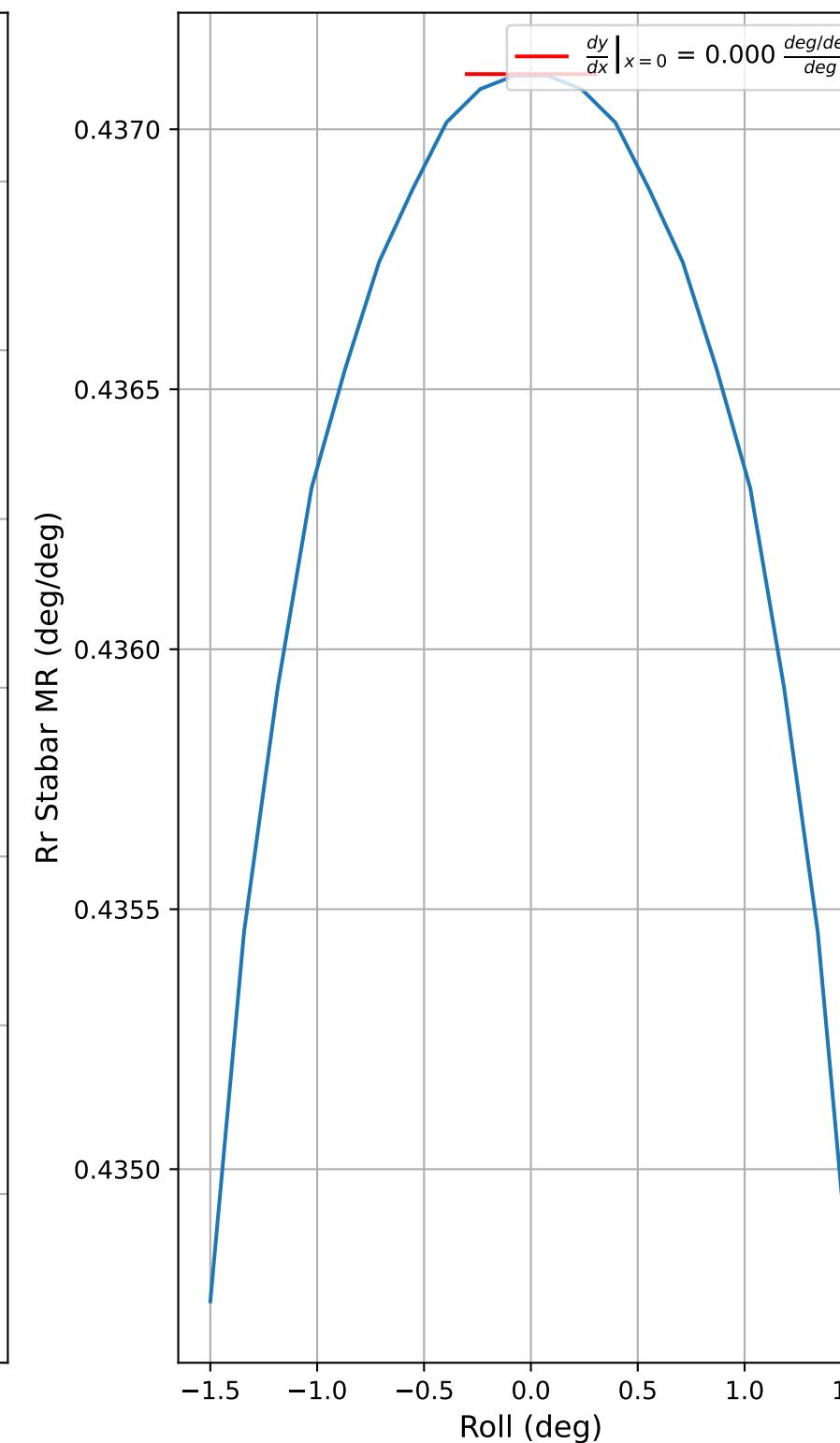
$$f(x) = a_3x^3 + a_2x^2 + a_1x + a_0$$

Fr	$f(x) = -0.0x^3 + -5.415x^2 + 0.0x + 16.938$
Rr	$f(x) = 0.0x^3 + -8.856x^2 + -0.0x + 23.139$

Fr Roll Stabar MR



Rr Roll Stabar MR

**Linear Fit**

$$f(x) = a_1x + a_0$$

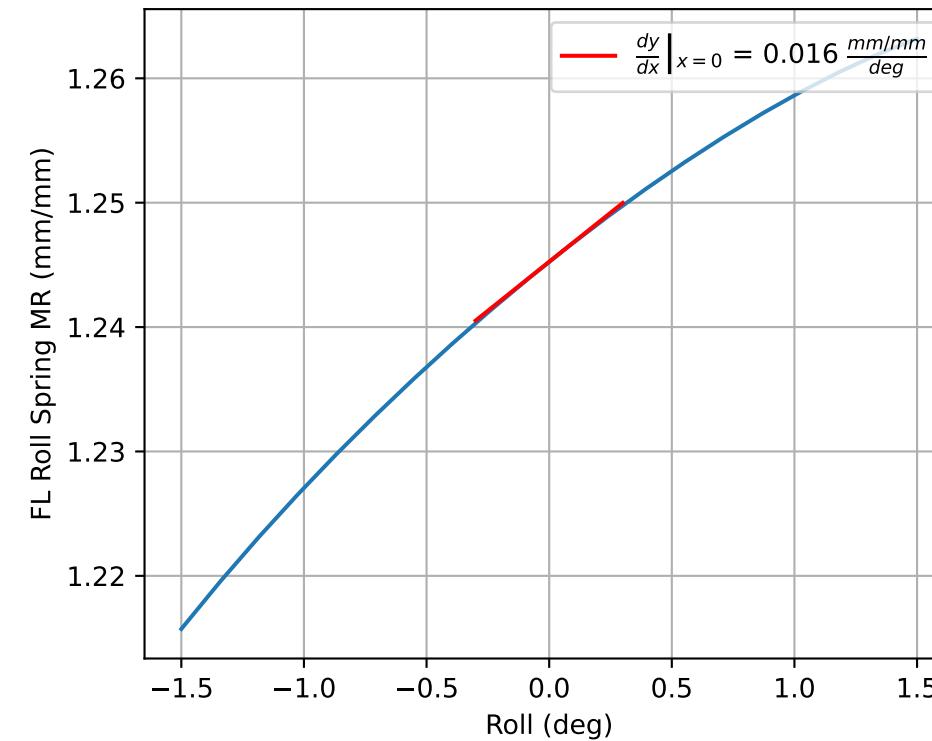
Fr	$f(x) = 0.0x + 0.0$
Rr	$f(x) = 0.0x + 0.437$

Cubic Fit

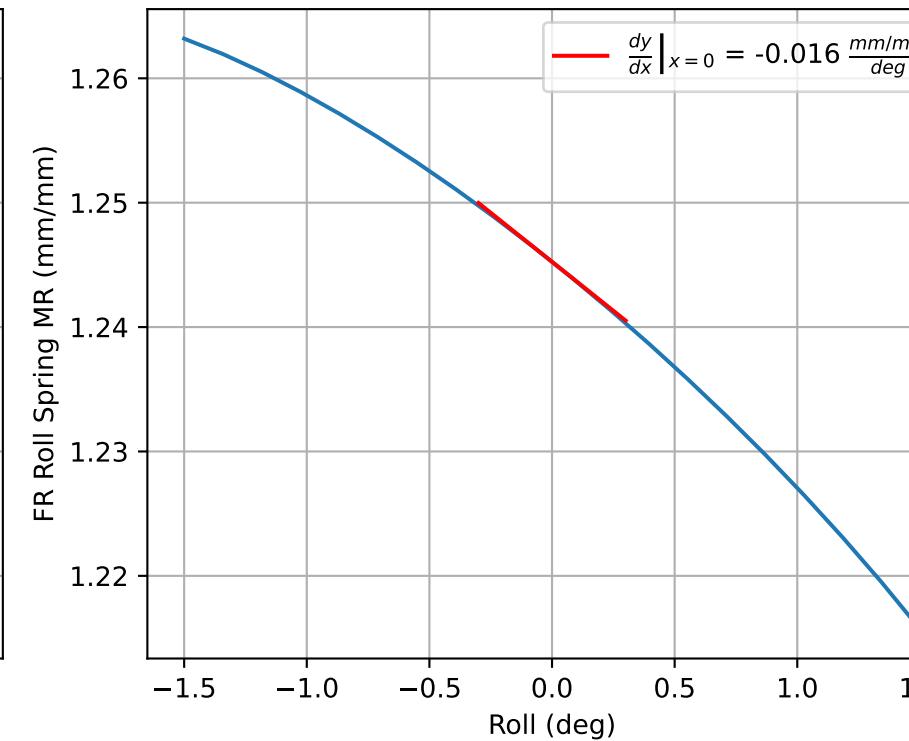
$$f(x) = a_3x^3 + a_2x^2 + a_1x + a_0$$

Fr	$f(x) = 0.0x^3 + 0.0x^2 + 0.0x + 0.0$
Rr	$f(x) = 0.0x^3 + -0.001x^2 + -0.0x + 0.437$

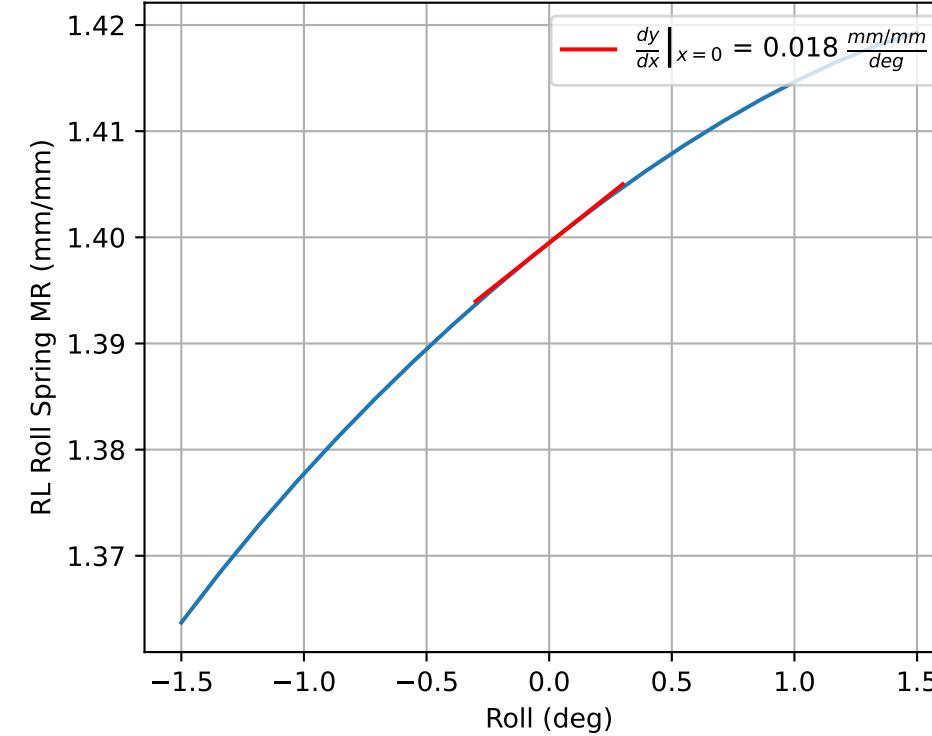
FL Roll Spring MRs



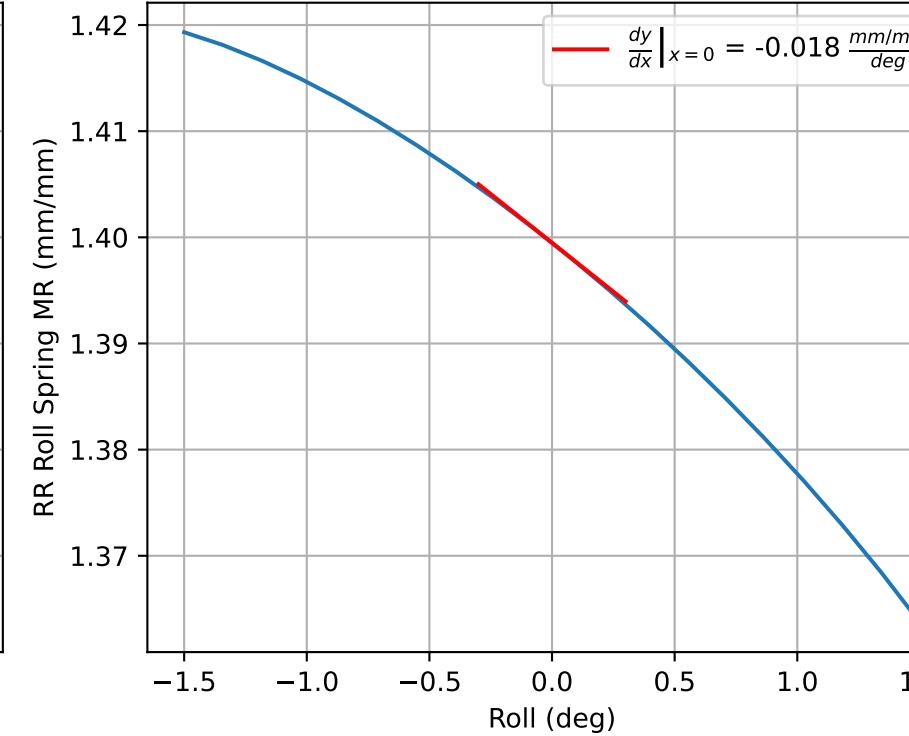
FR Roll Spring MRs



RL Roll Spring MRs



RR Roll Spring MRs

**Linear Fit**

$$f(x) = a_1x + a_0$$

FL	$f(x) = 0.016x + 1.245$
FR	$f(x) = -0.016x + 1.245$
RL	$f(x) = 0.018x + 1.399$
RR	$f(x) = -0.018x + 1.399$

Cubic Fit

$$f(x) = a_3x^3 + a_2x^2 + a_1x + a_0$$

FL	$f(x) = 0.0x^3 + -0.003x^2 + 0.016x + 1.245$
FR	$f(x) = -0.0x^3 + -0.003x^2 + -0.016x + 1.245$
RL	$f(x) = 0.0x^3 + -0.004x^2 + 0.018x + 1.4$
RR	$f(x) = -0.0x^3 + -0.004x^2 + -0.018x + 1.4$