



Kinematics Report

Simulation Author: Robert Horvath

Generated By: Unknown (Unknown)

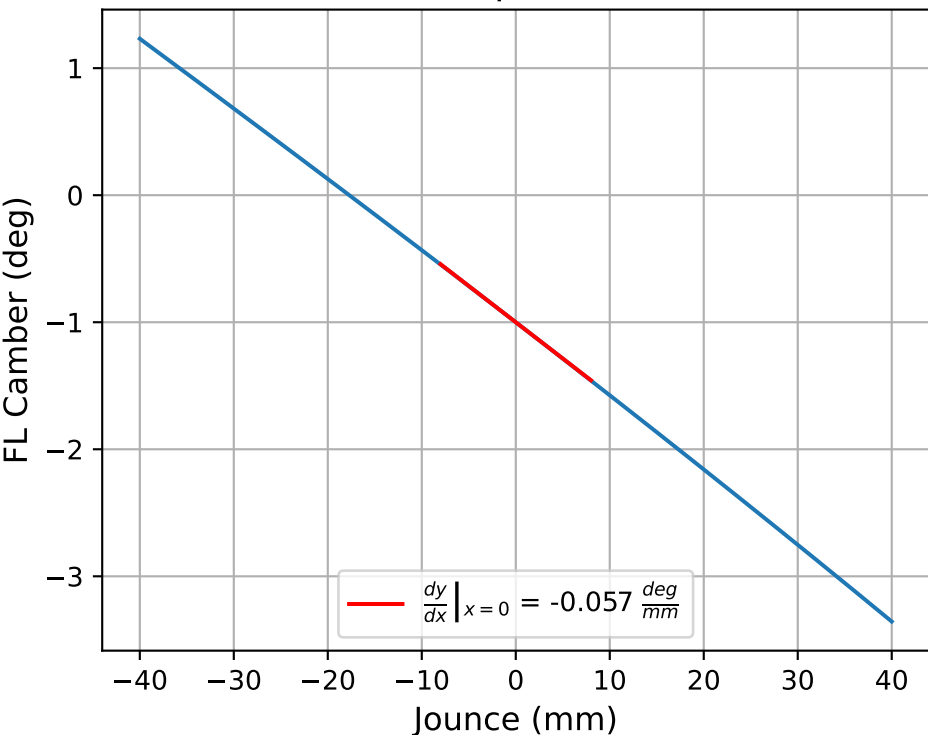
Date: 2025-09-14, 09:41 PM UTC

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

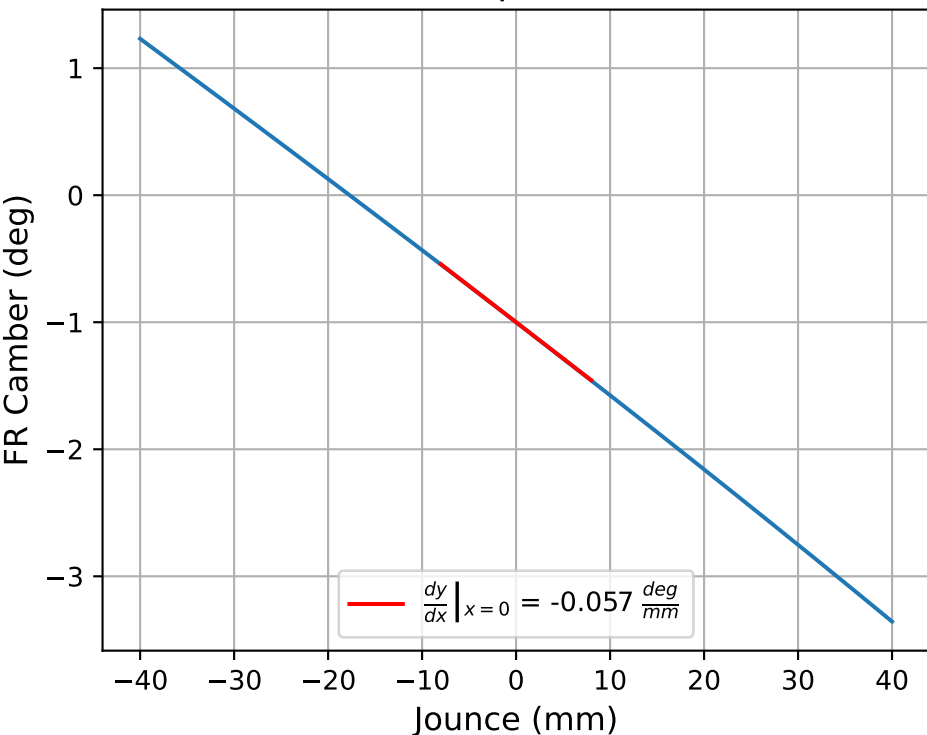
Note 2: Cubic fits are performed over the entire visible domain (fits over the entire range)



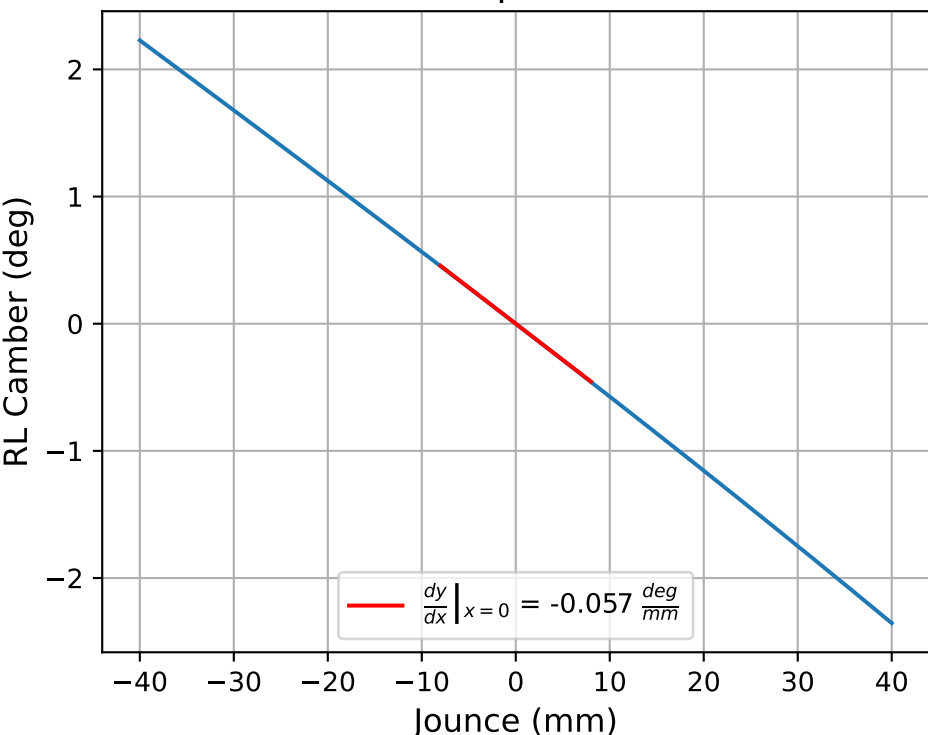
FL Bump Camber



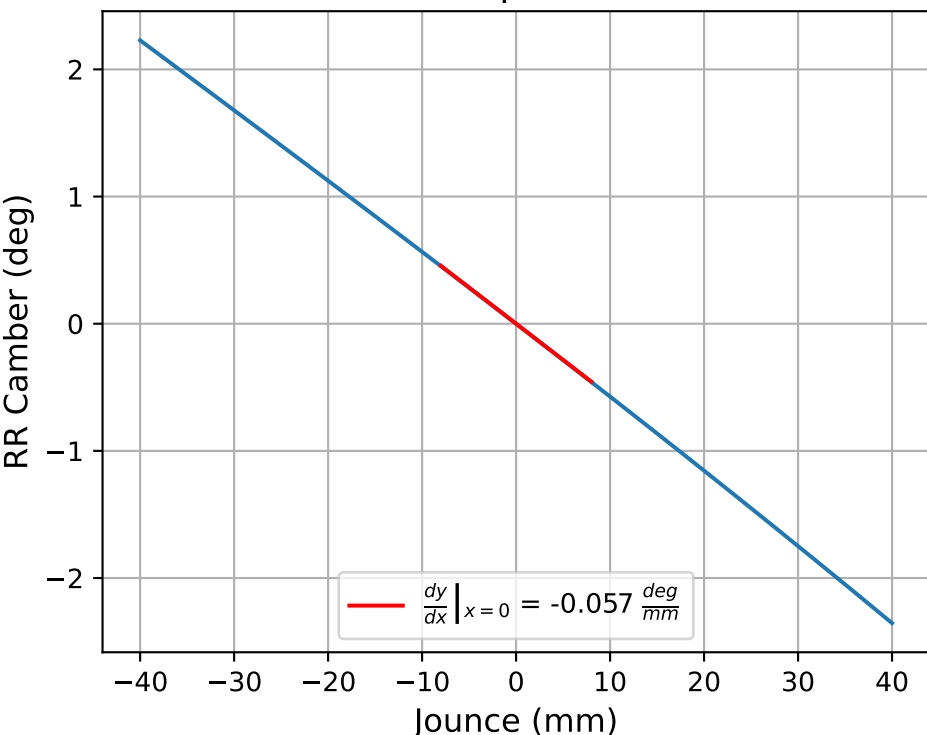
FR Bump Camber



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	$f(x) = -0.057x + 0.0$

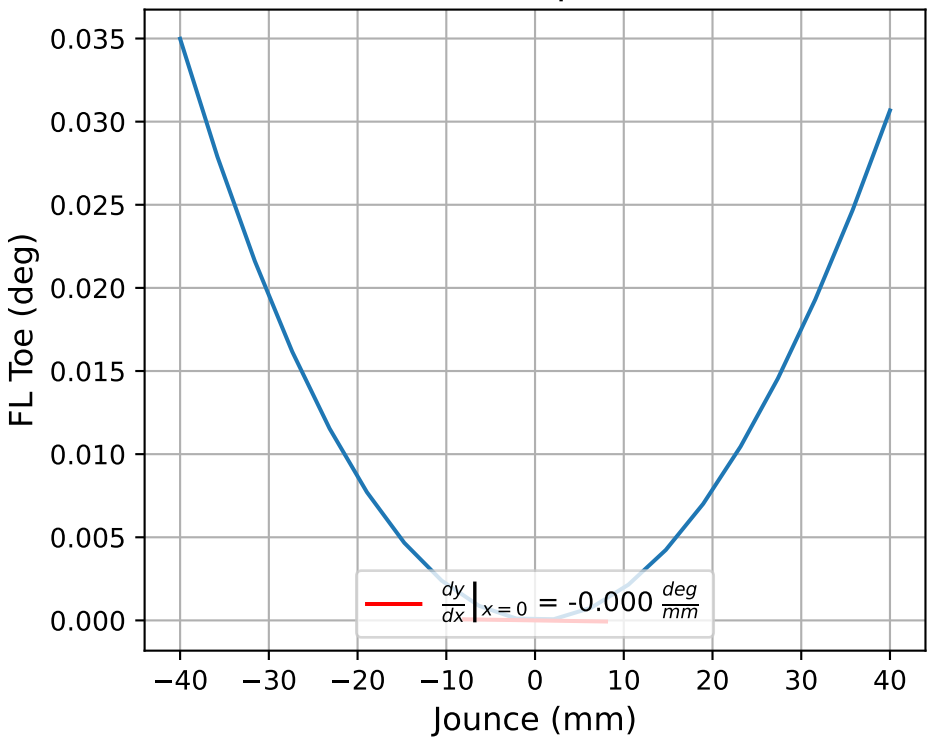
Cubic Fit

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

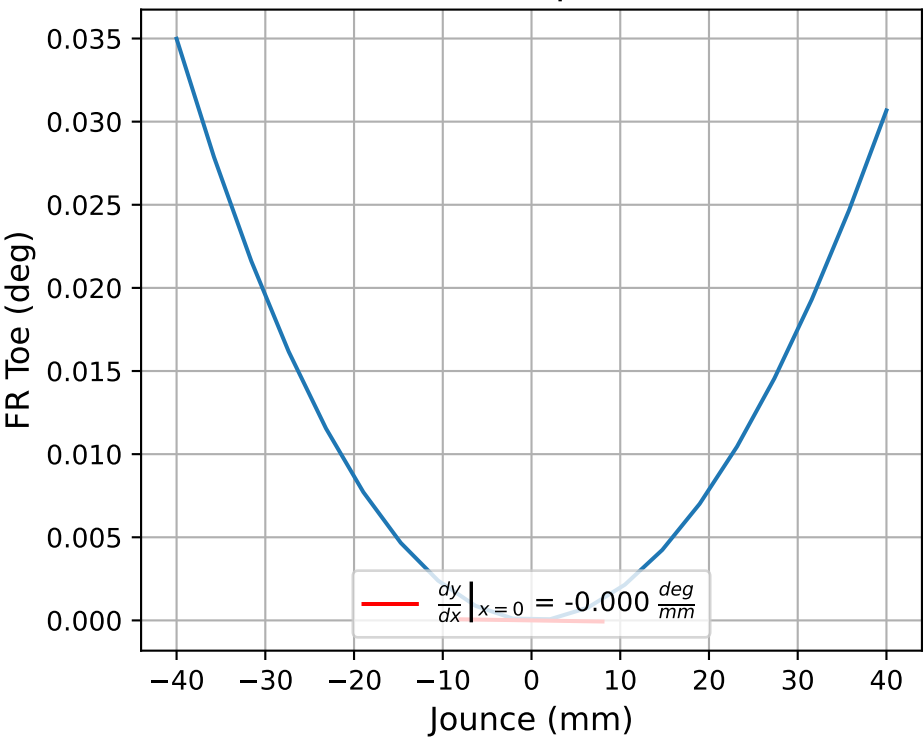
FL	$f(x) = -0.0x^3 + -0.0x^2 + -0.057x + -1.0$
FR	$f(x) = -0.0x^3 + -0.0x^2 + -0.057x + -1.0$
RL	$f(x) = -0.0x^3 + -0.0x^2 + -0.057x + 0.0$
RR	$f(x) = -0.0x^3 + -0.0x^2 + -0.057x + 0.0$



FL Bump Toe



FR Bump Toe

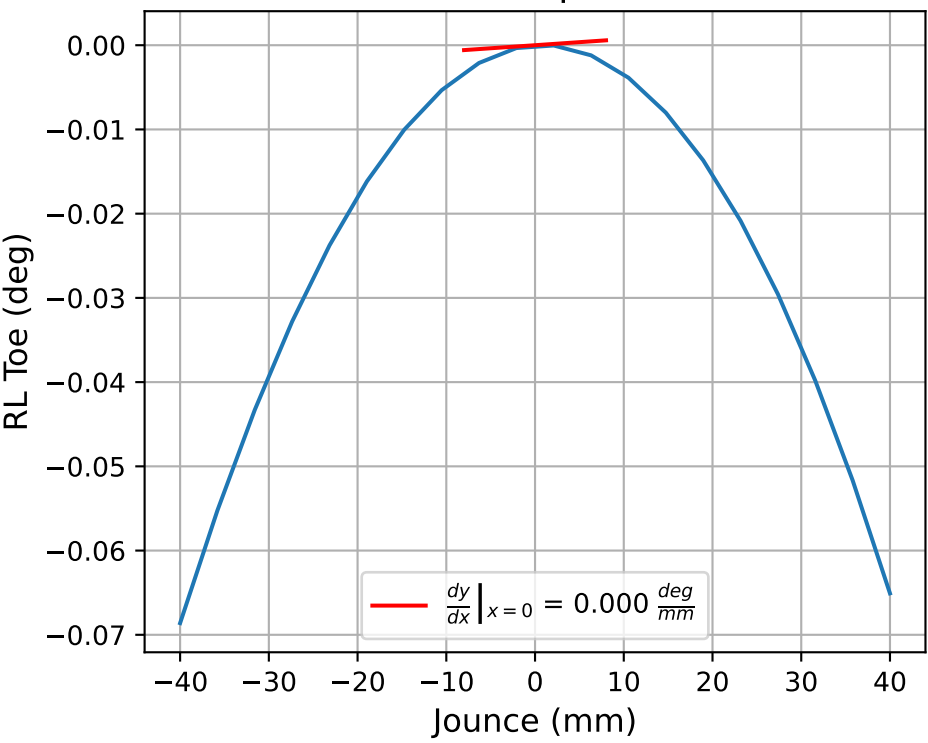


Linear Fit

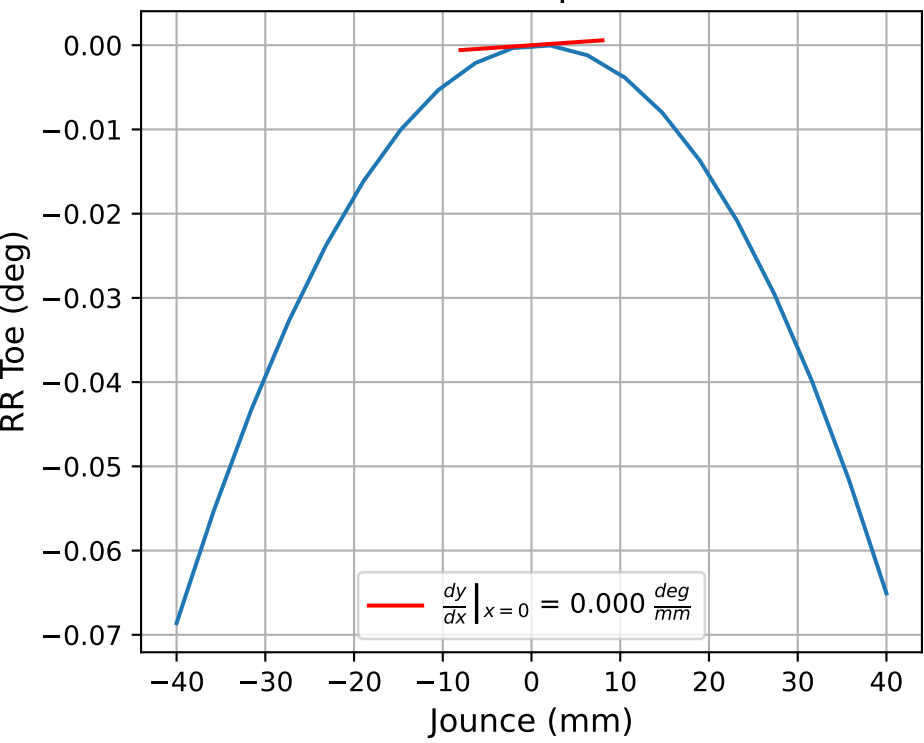
$$f(x) = a_1x + a_0$$

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



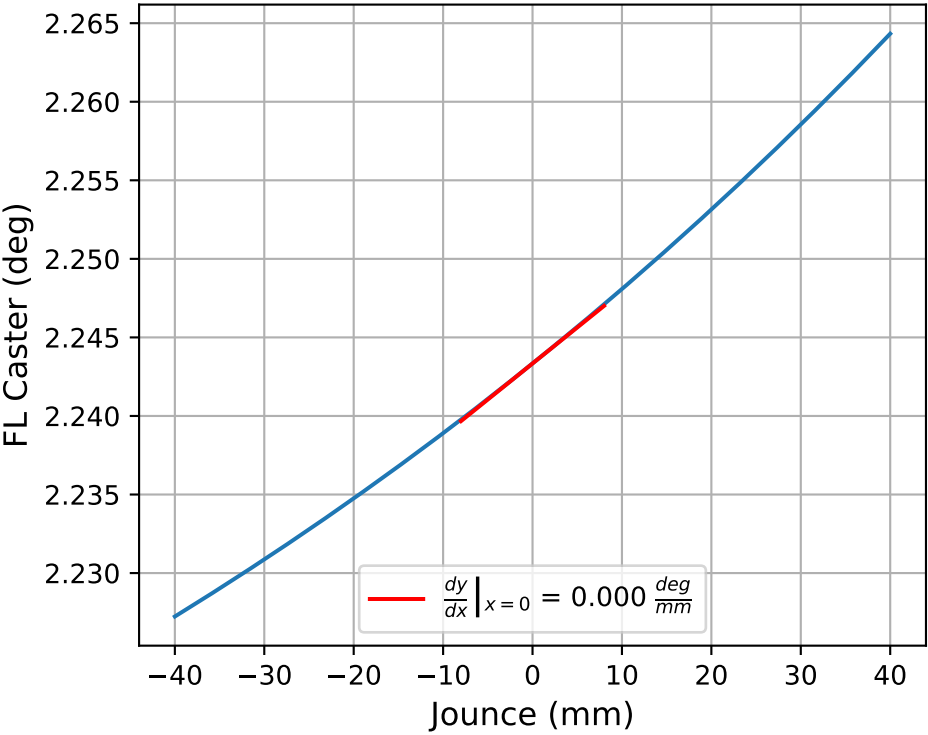
Cubic Fit

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

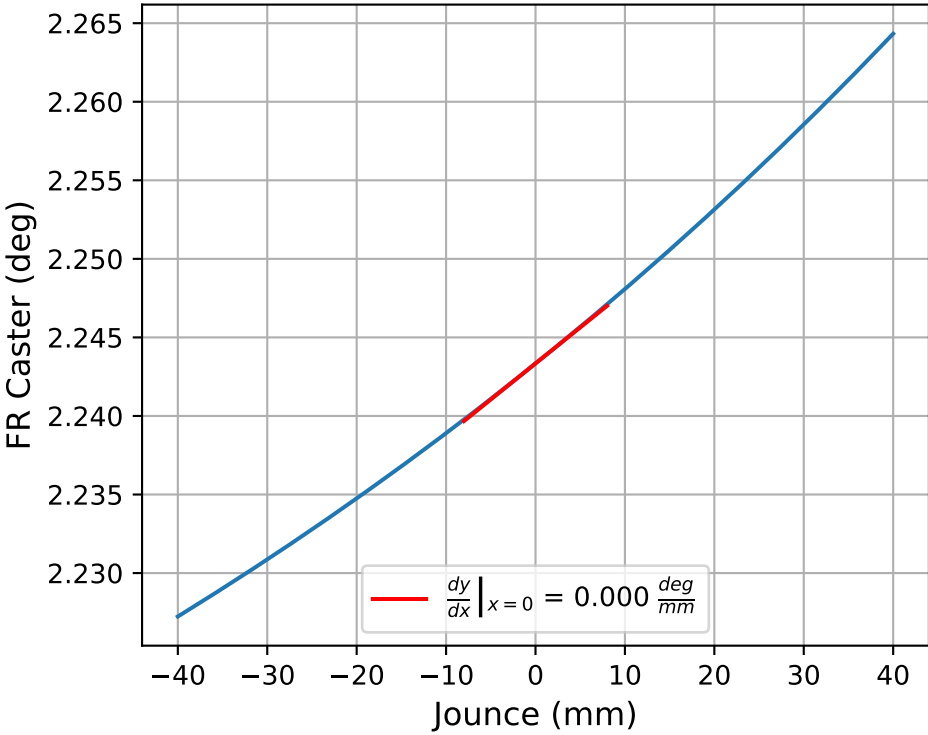
FL	$f(x) = -0.0x^3 + 0.0x^2 + -0.0x + -0.0$
FR	$f(x) = -0.0x^3 + 0.0x^2 + -0.0x + -0.0$
RL	$f(x) = -0.0x^3 + -0.0x^2 + 0.0x + 0.0$
RR	$f(x) = -0.0x^3 + -0.0x^2 + 0.0x + 0.0$



FL Bump Caster



FR Bump Caster

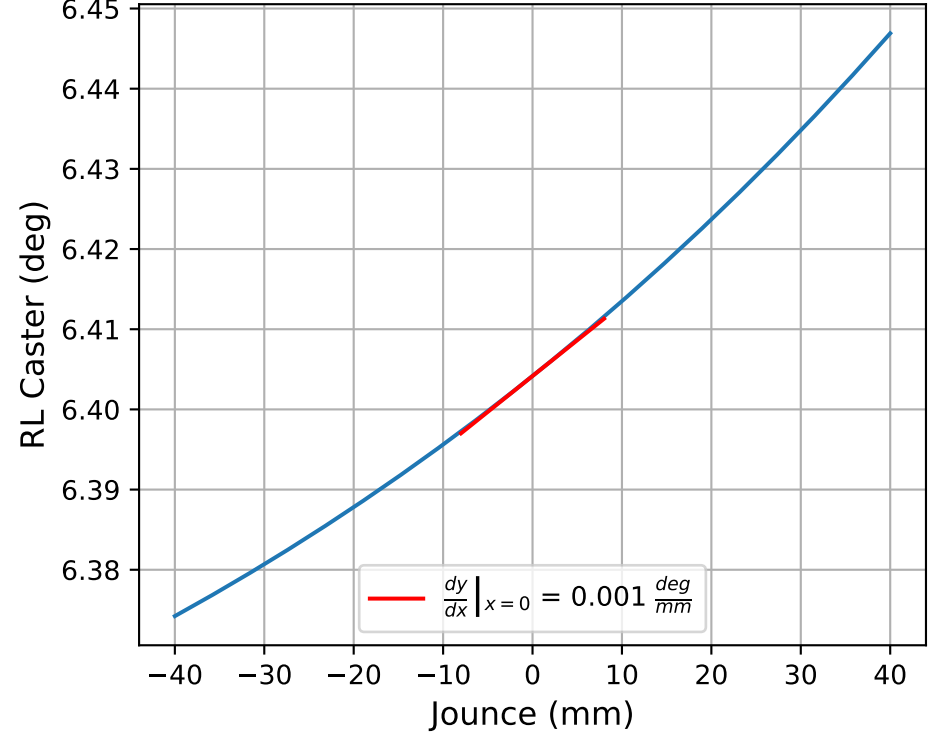


Linear Fit

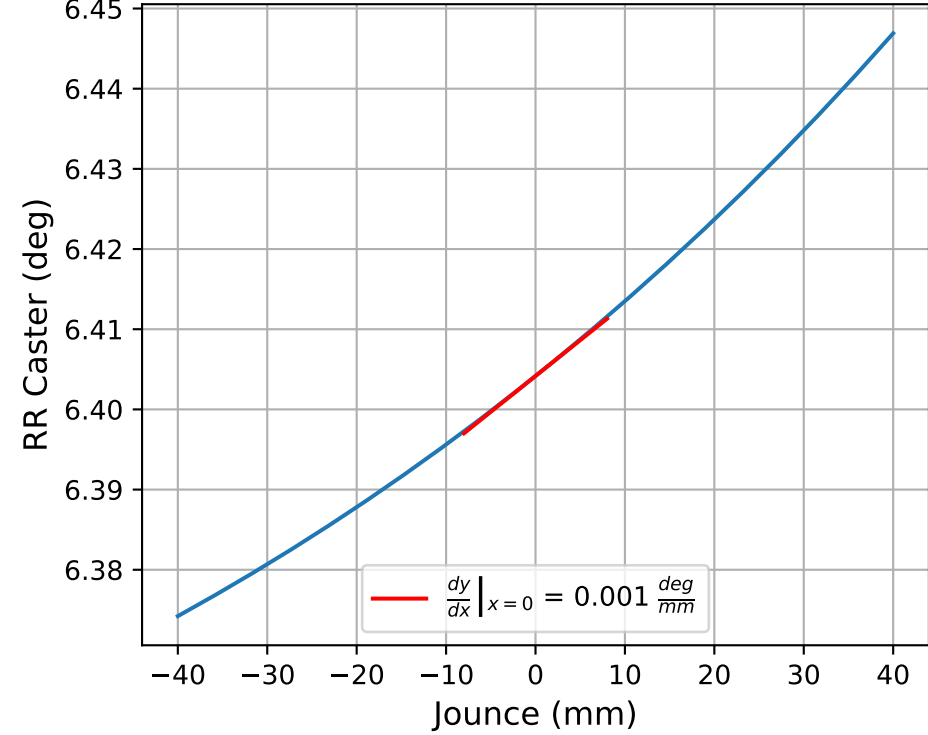
$$f(x) = a_1x + a_0$$

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

RL Bump Caster



RR Bump Caster



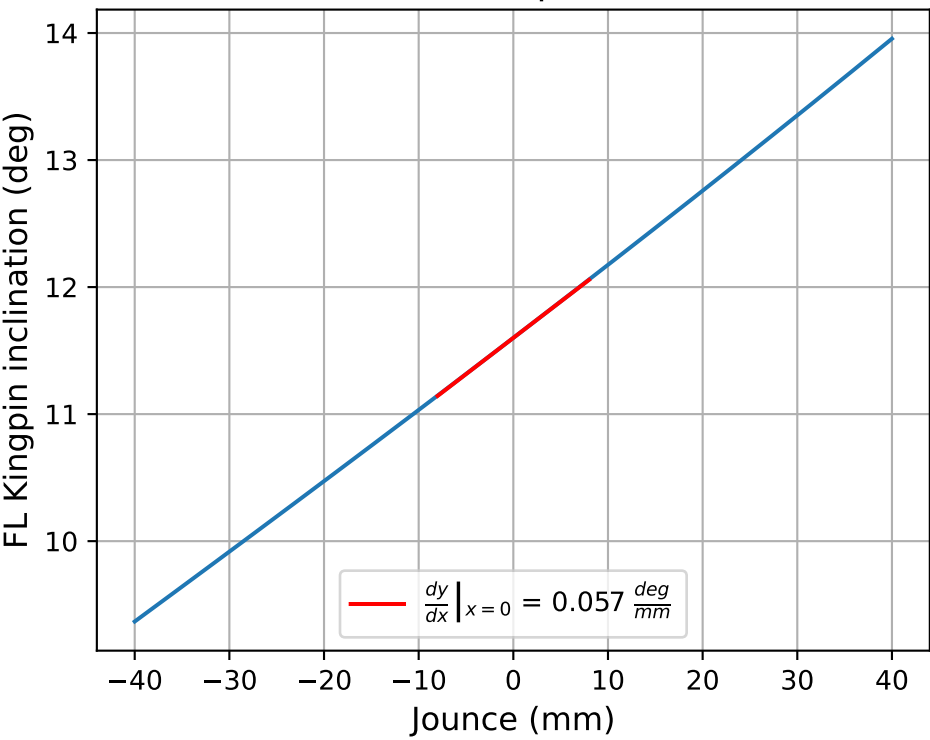
Cubic Fit

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

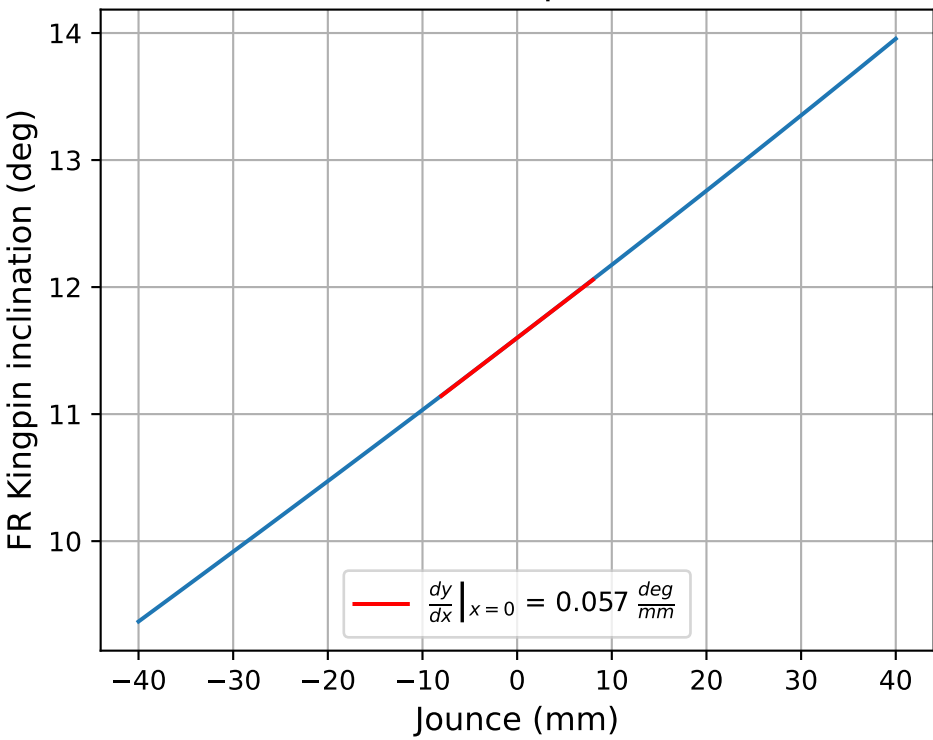
FL	$f(x) = 0.0x^3 + 0.0x^2 + 0.0x + 2.243$
FR	$f(x) = 0.0x^3 + 0.0x^2 + 0.0x + 2.243$
RL	$f(x) = 0.0x^3 + 0.0x^2 + 0.001x + 6.404$
RR	$f(x) = 0.0x^3 + 0.0x^2 + 0.001x + 6.404$



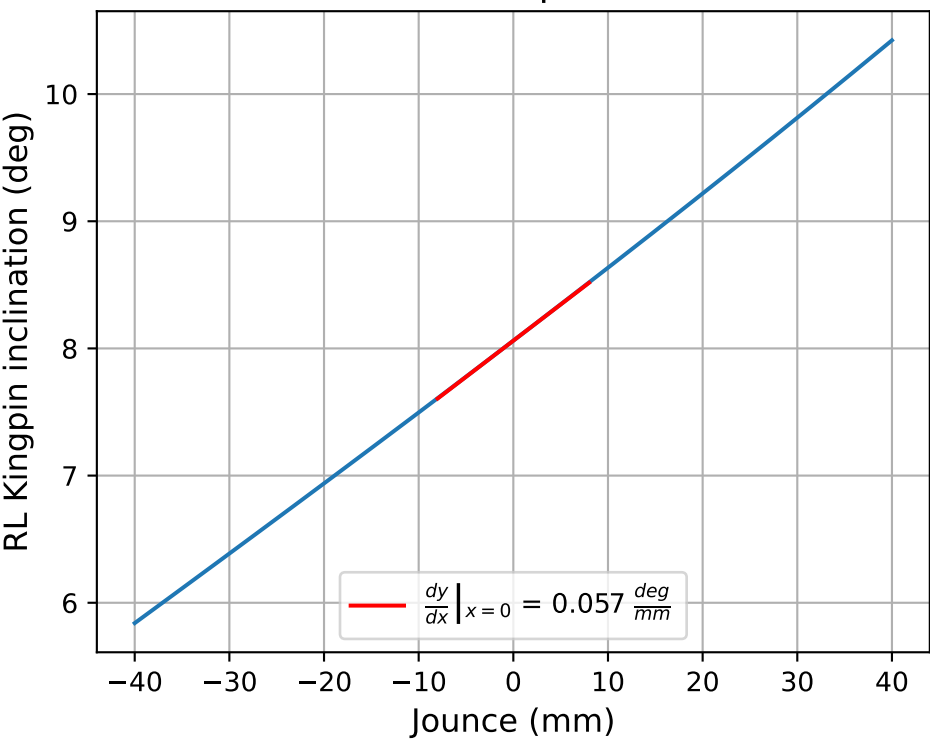
FL Bump KPI



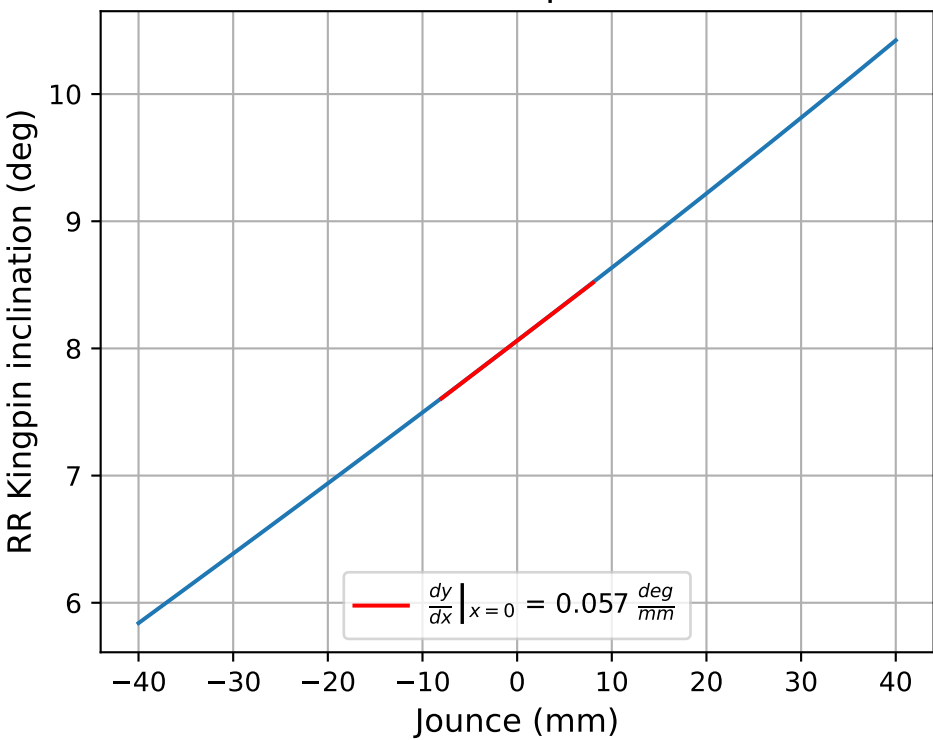
FR Bump KPI



RL Bump KPI



RR 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	$f(x) = 0.057x + 8.061$

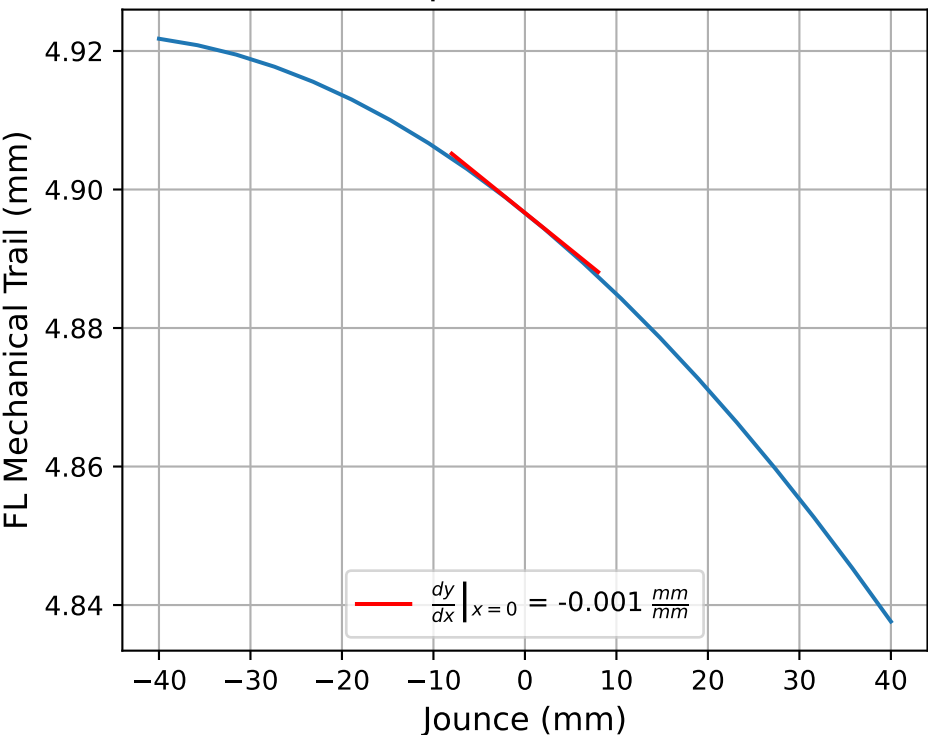
Cubic Fit

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

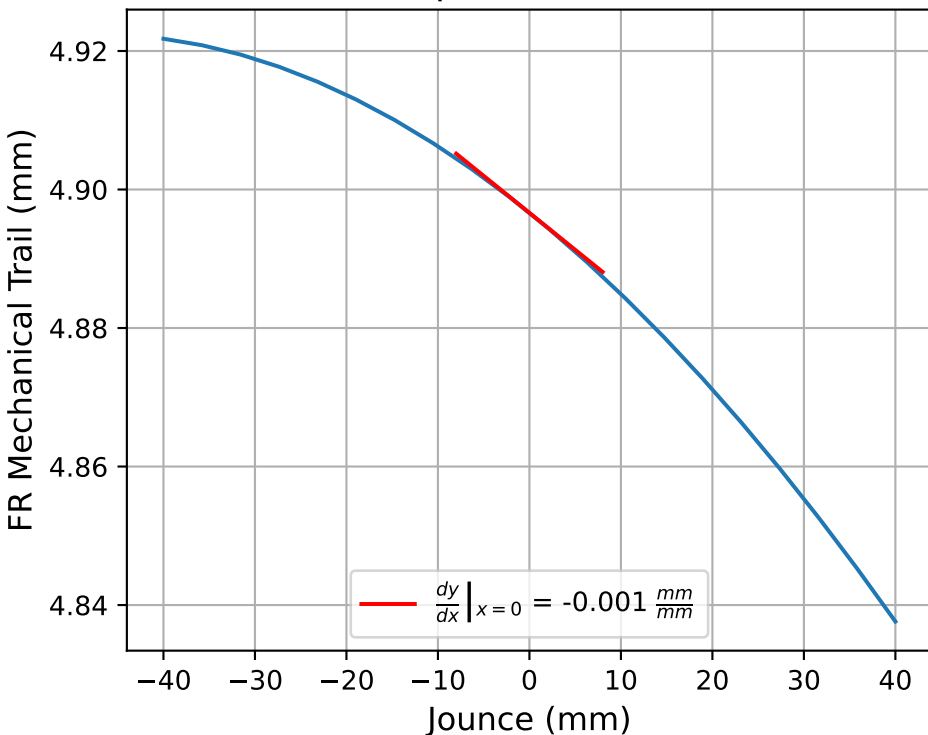
FL	$f(x) = 0.0x^3 + 0.0x^2 + 0.057x + 11.6$
FR	$f(x) = 0.0x^3 + 0.0x^2 + 0.057x + 11.6$
RL	$f(x) = 0.0x^3 + 0.0x^2 + 0.057x + 8.061$
RR	$f(x) = 0.0x^3 + 0.0x^2 + 0.057x + 8.061$



FL Bump Mechanical Trail



FR Bump Mechanical Trail

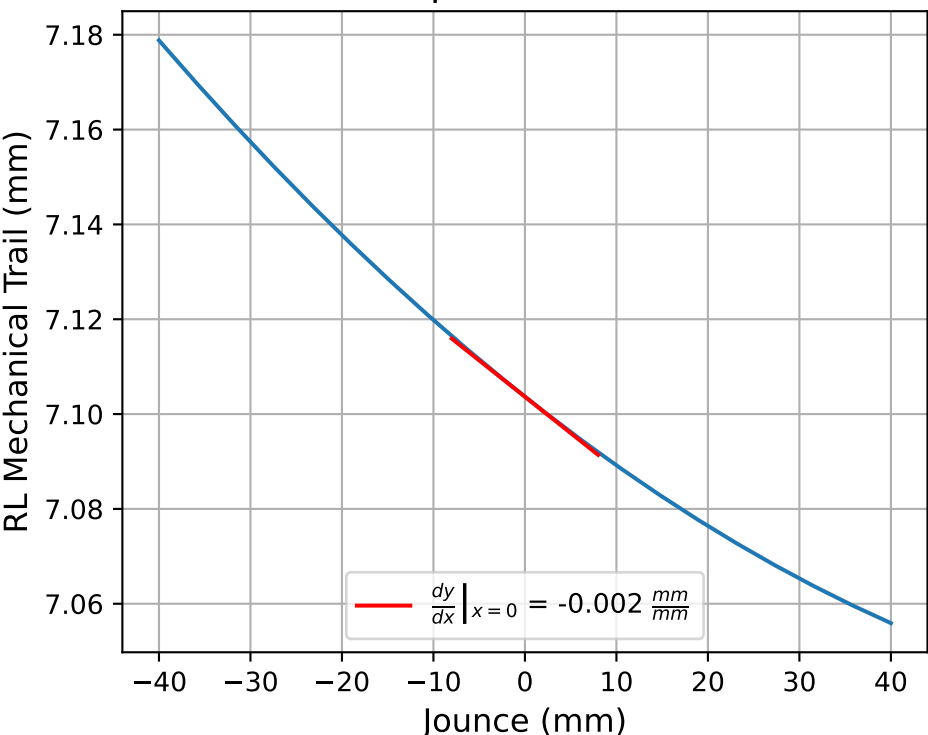


Linear Fit

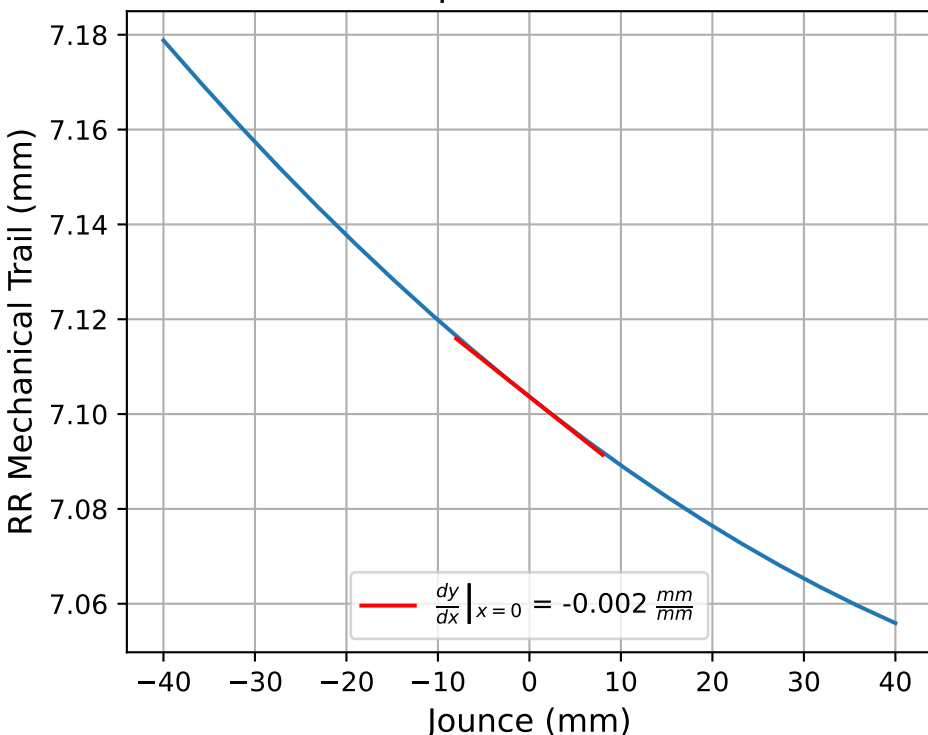
$$f(x) = a_1x + a_0$$

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



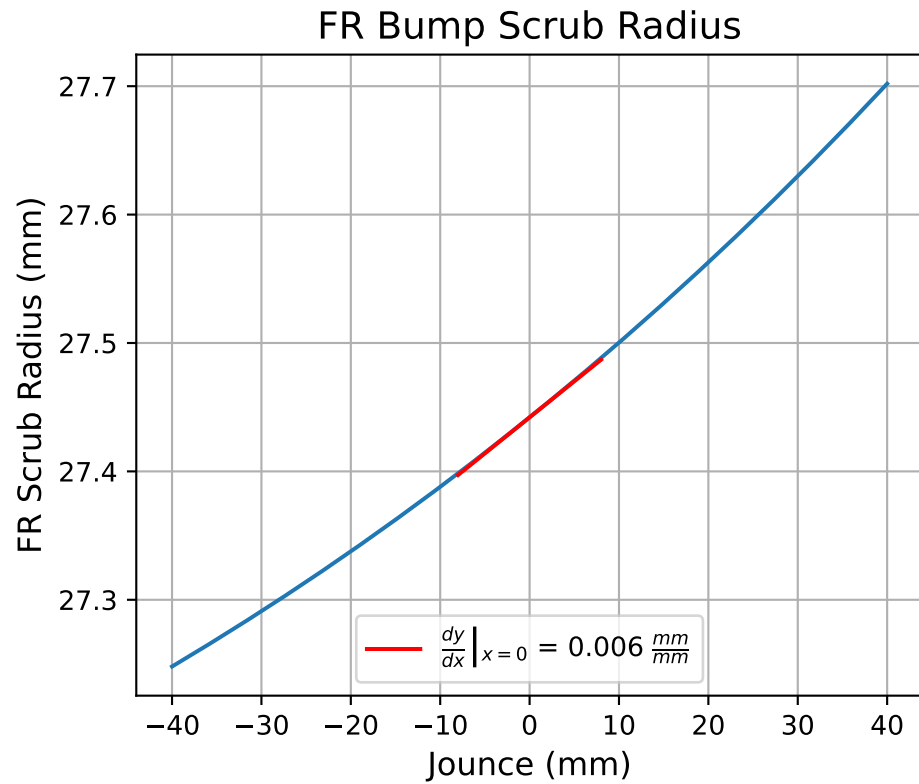
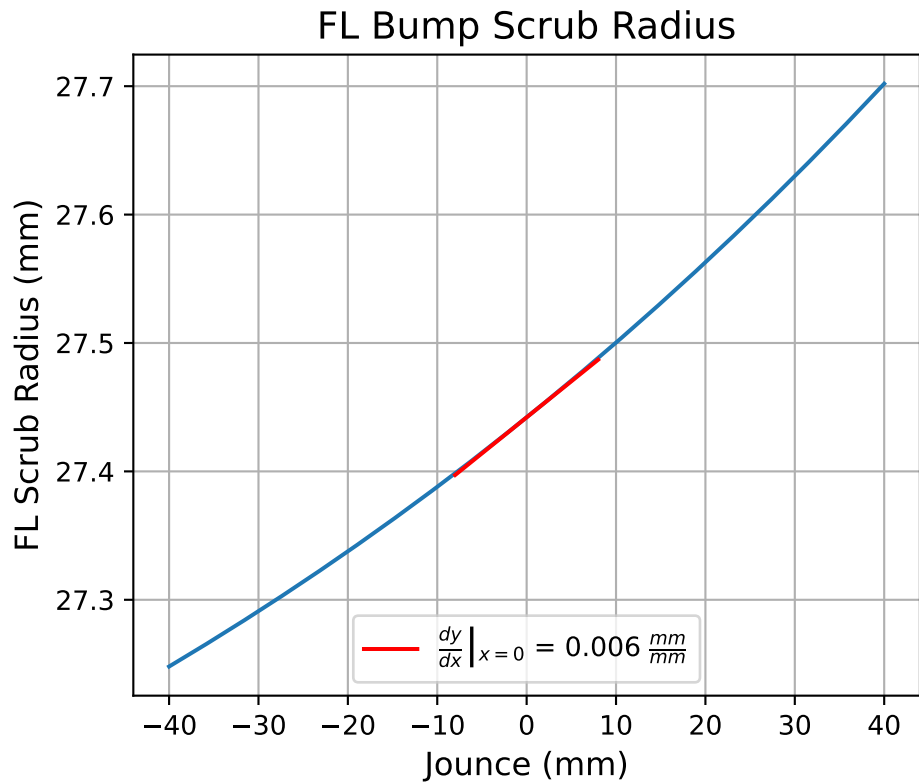
RR Bump Mechanical Trail



Cubic Fit

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

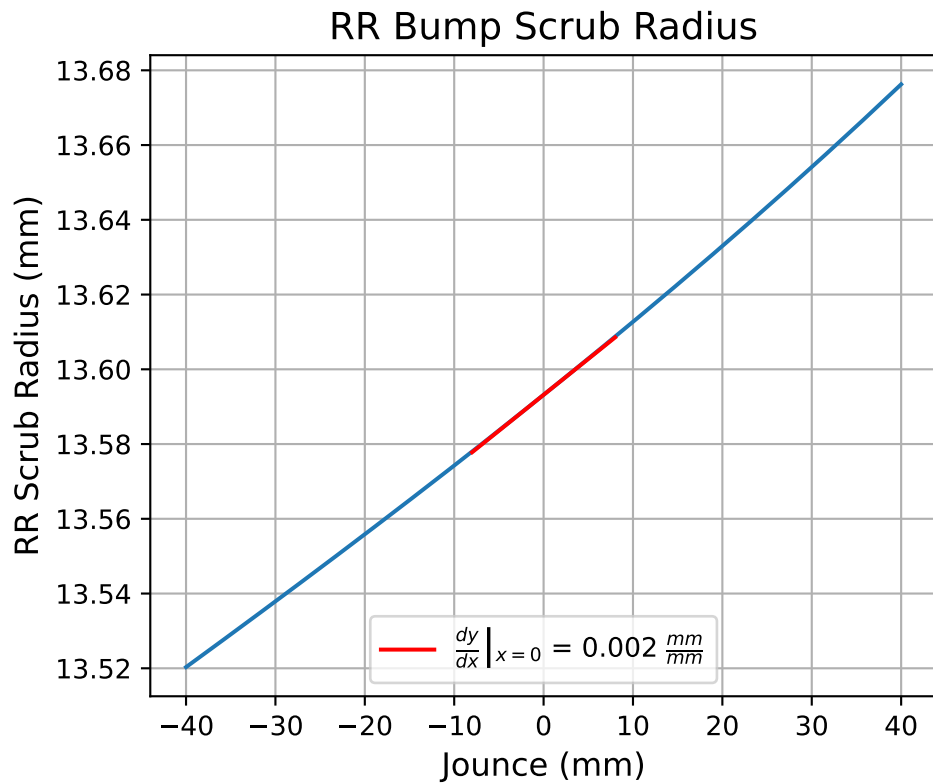
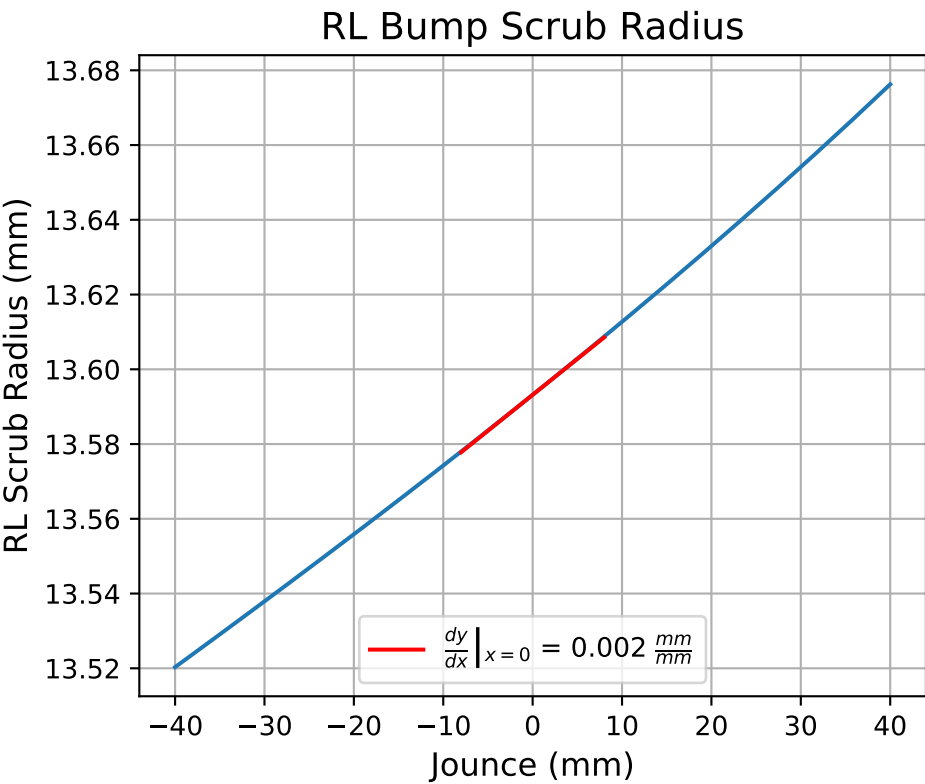
FL	$f(x) = 0.0x^3 + -0.0x^2 + -0.001x + 4.897$
FR	$f(x) = 0.0x^3 + -0.0x^2 + -0.001x + 4.897$
RL	$f(x) = -0.0x^3 + 0.0x^2 + -0.002x + 7.104$
RR	$f(x) = -0.0x^3 + 0.0x^2 + -0.002x + 7.104$



Nightwatch

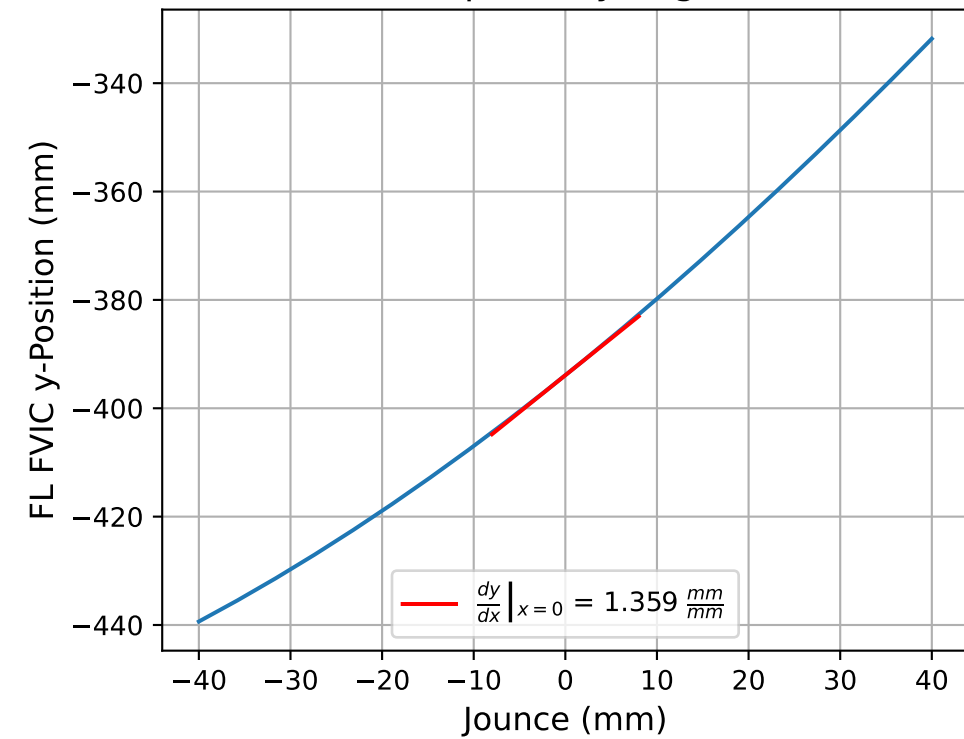
FMU

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	$f(x) = 0.002x + 13.593$	

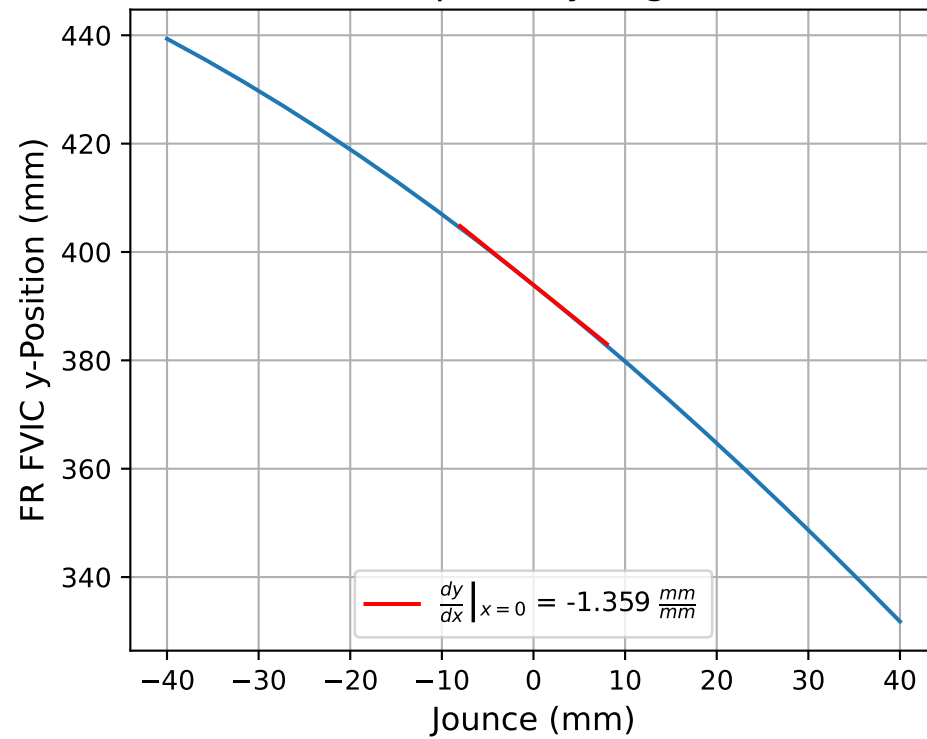


Cubic Fit		$f(x) = a_3x^3 + a_2x^2 + a_1x + a_0$
FL	$f(x) = 0.0x^3 + 0.0x^2 + 0.006x + 27.442$	
FR	$f(x) = 0.0x^3 + 0.0x^2 + 0.006x + 27.442$	
RL	$f(x) = 0.0x^3 + 0.0x^2 + 0.002x + 13.593$	
RR	$f(x) = 0.0x^3 + 0.0x^2 + 0.002x + 13.593$	

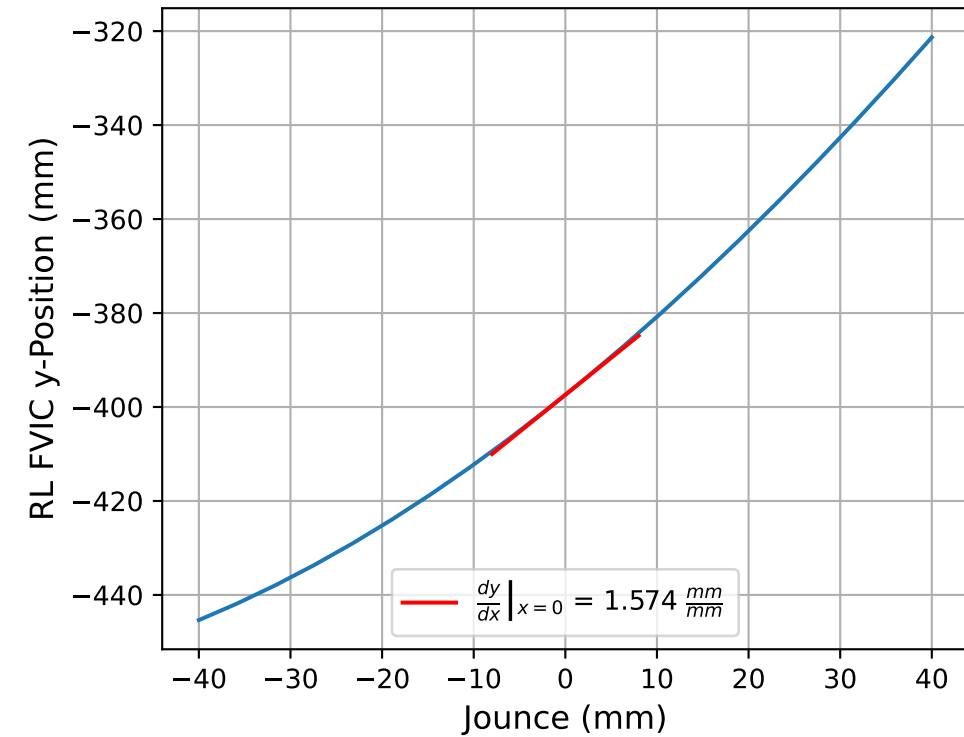
FL Bump FVIC y-Migration



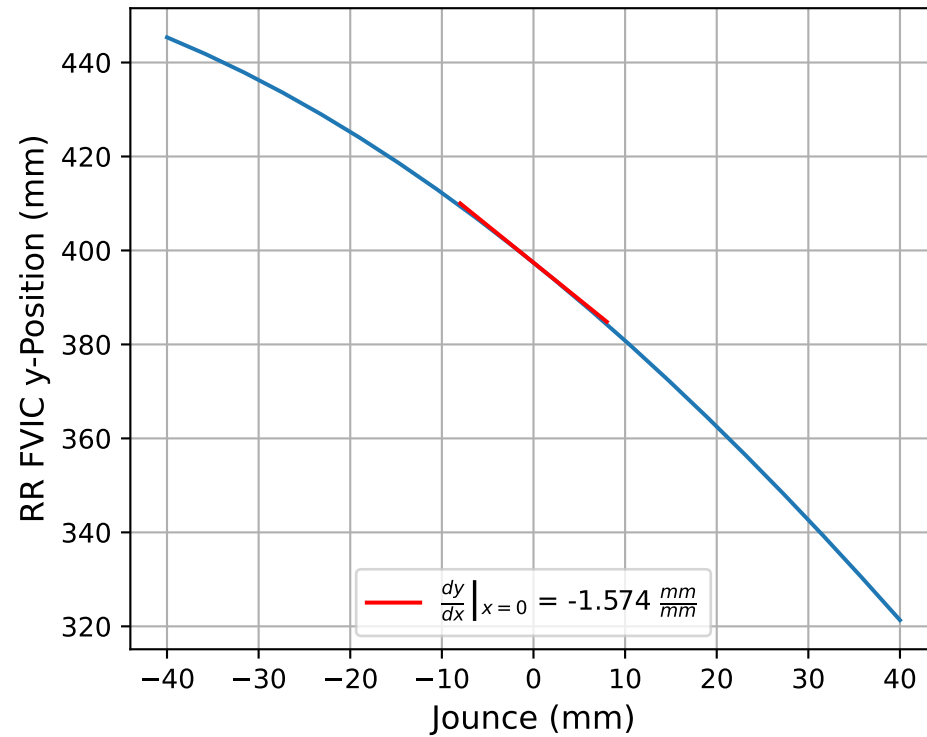
FR Bump FVIC y-Migration



RL Bump FVIC y-Migration



RR Bump FVIC y-Migration



— Nightwatch
- - - FMU

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	$f(x) = -1.574x + 397.417$

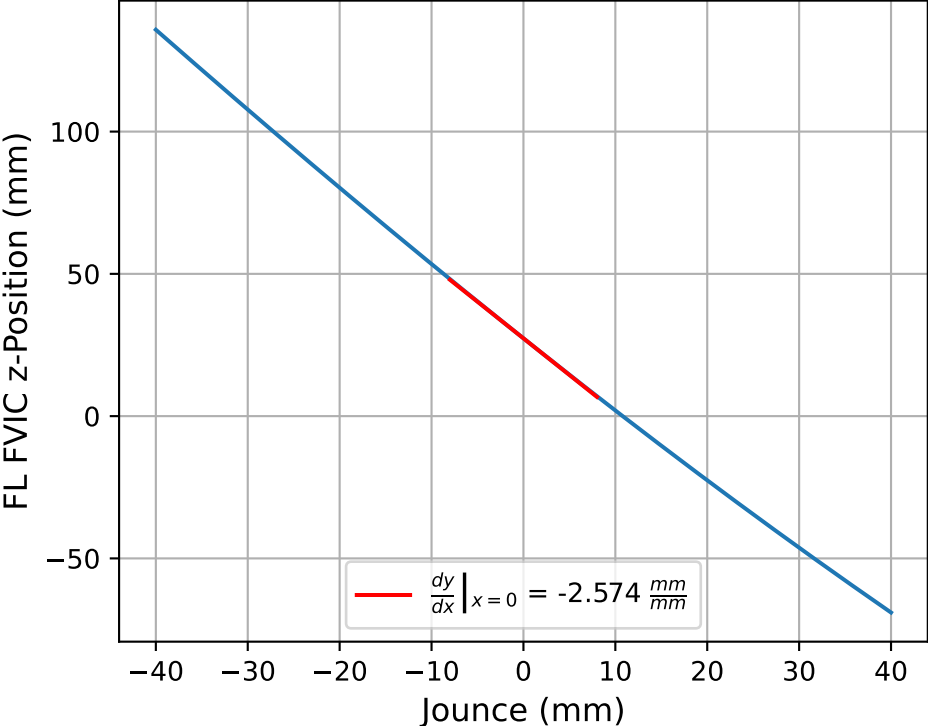
Cubic Fit

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

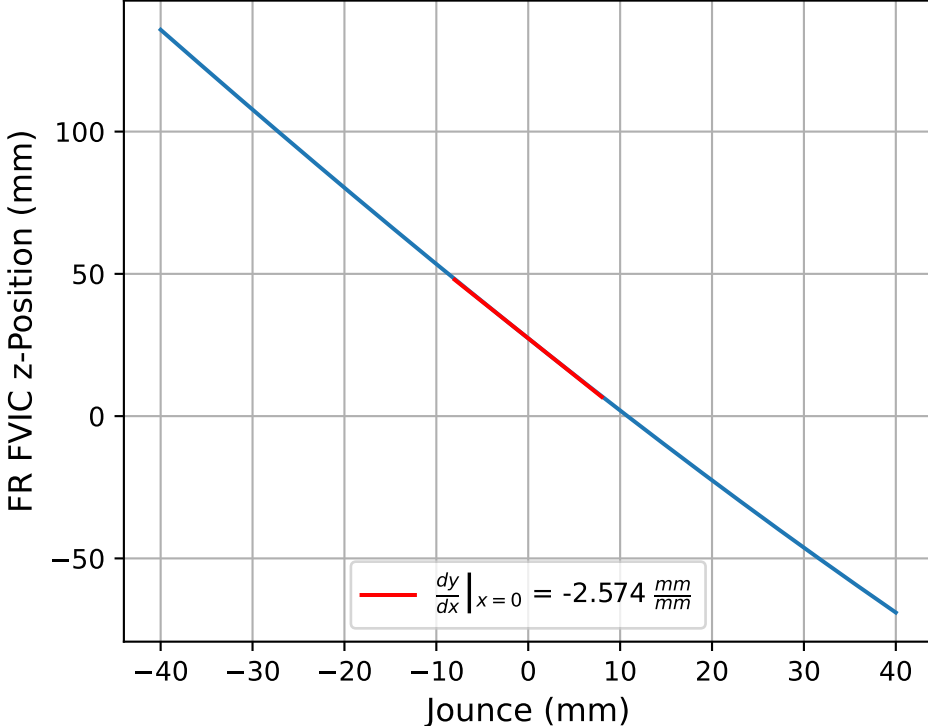
FL	$f(x) = -0.0x^3 + 0.005x^2 + 1.359x + -393.906$
FR	$f(x) = 0.0x^3 + -0.005x^2 + -1.359x + 393.906$
RL	$f(x) = -0.0x^3 + 0.009x^2 + 1.574x + -397.413$
RR	$f(x) = 0.0x^3 + -0.009x^2 + -1.574x + 397.413$



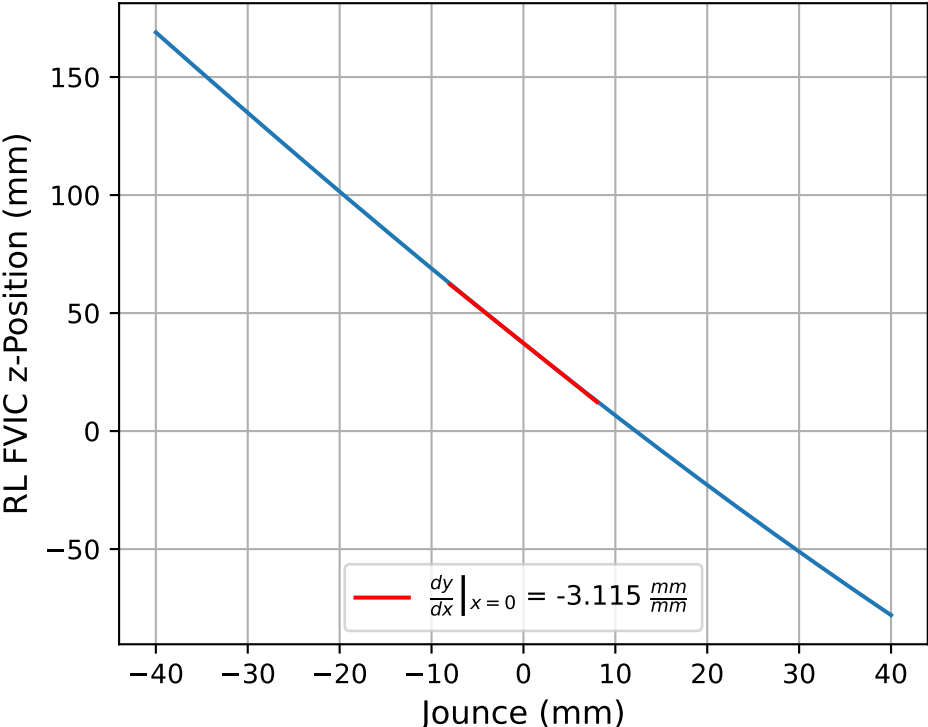
FL Bump FVIC z-Migration



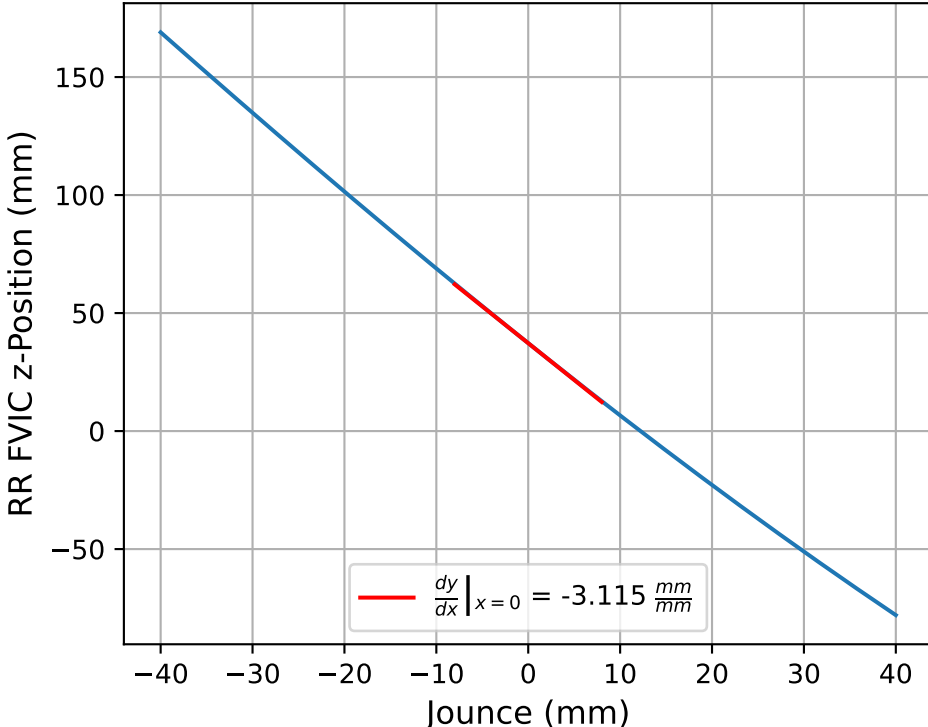
FR Bump FVIC z-Migration



RL Bump FVIC z-Migration



RR Bump FVIC z-Migration



Linear Fit

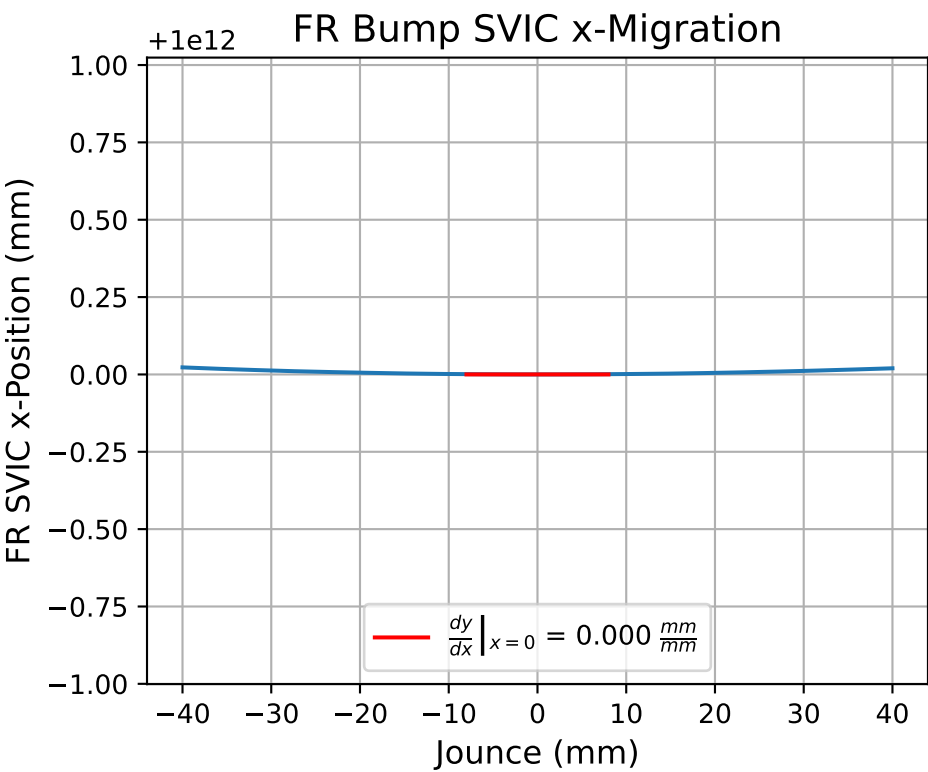
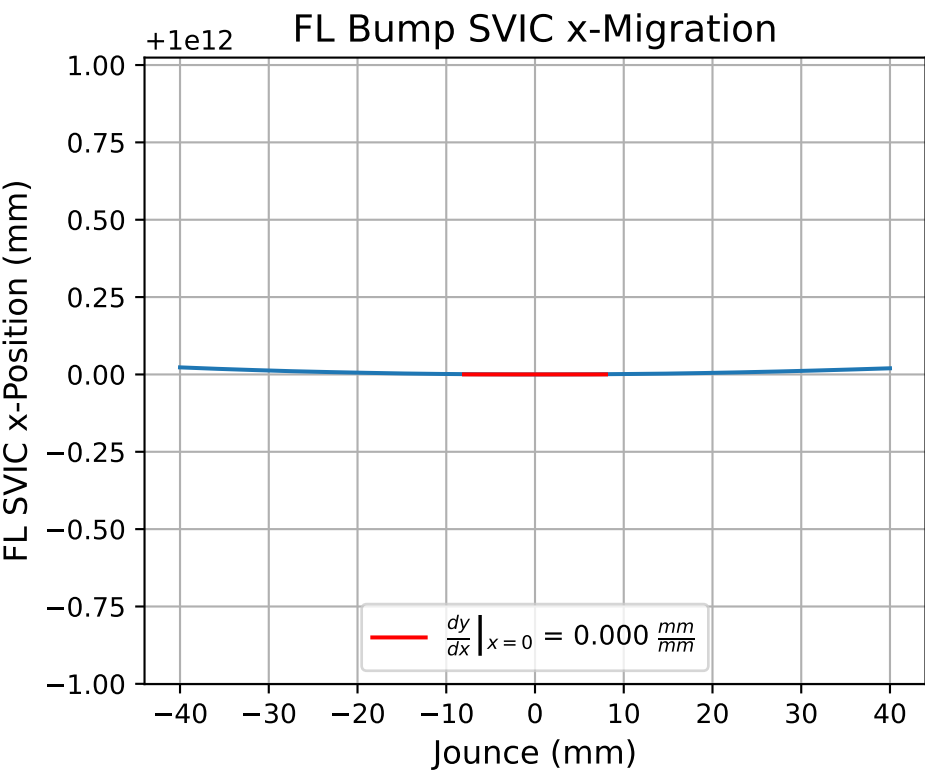
$$f(x) = a_1x + a_0$$

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

Cubic Fit

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

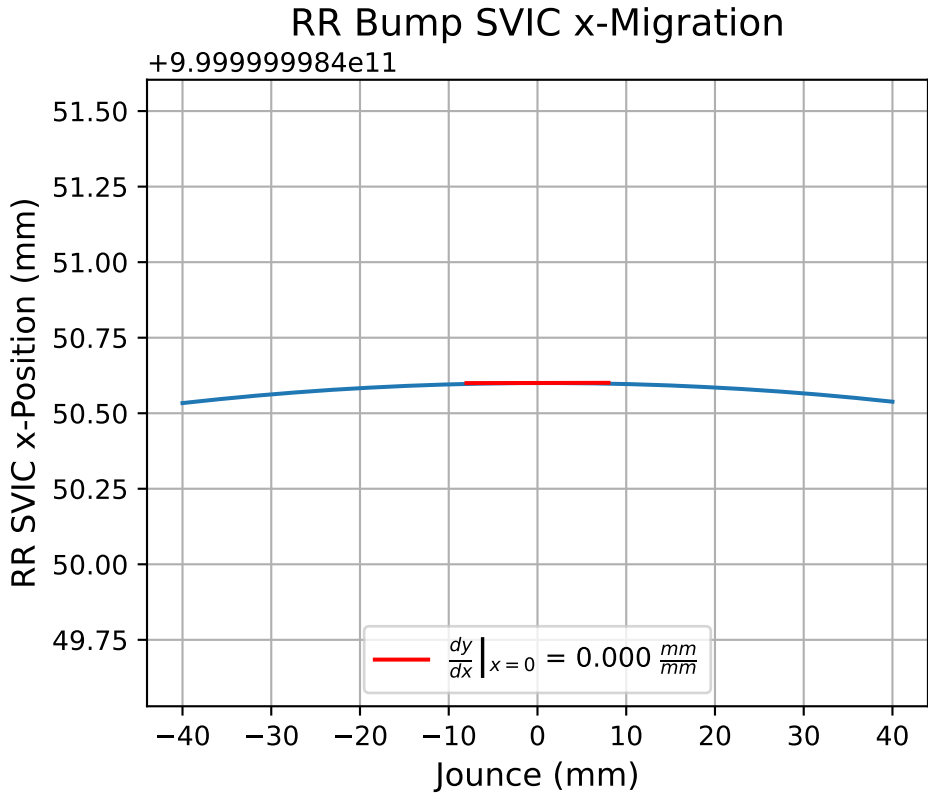
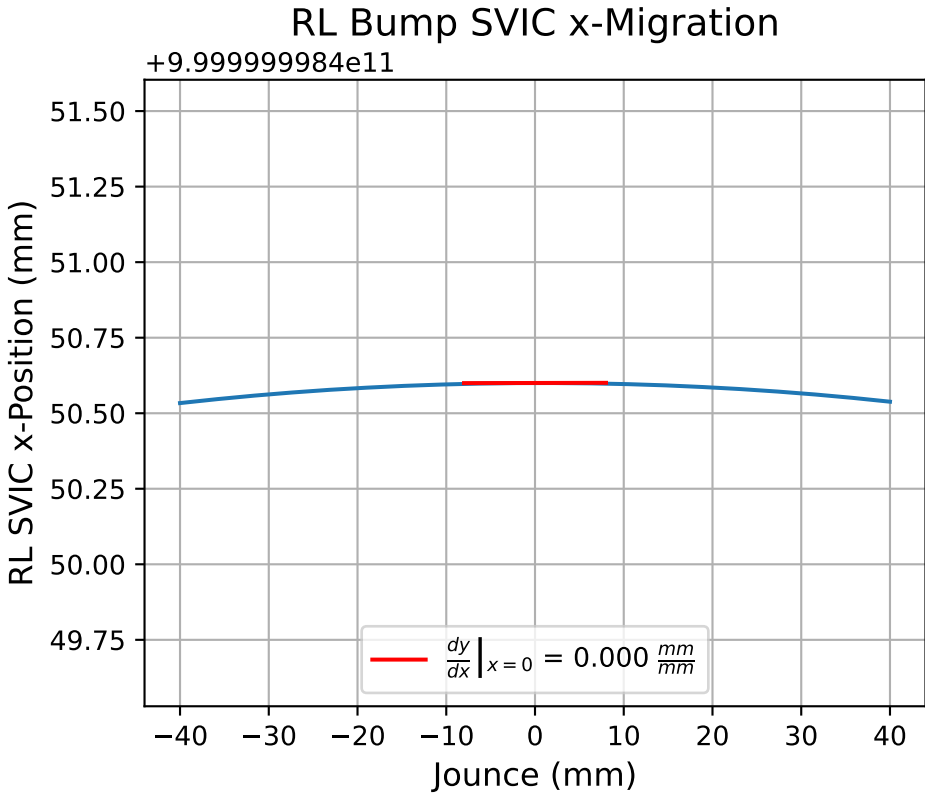
FL	$f(x) = 0.0x^3 + 0.004x^2 + -2.574x + 27.343$
FR	$f(x) = 0.0x^3 + 0.004x^2 + -2.574x + 27.343$
RL	$f(x) = 0.0x^3 + 0.005x^2 + -3.115x + 37.245$
RR	$f(x) = 0.0x^3 + 0.005x^2 + -3.115x + 37.245$



Linear Fit

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

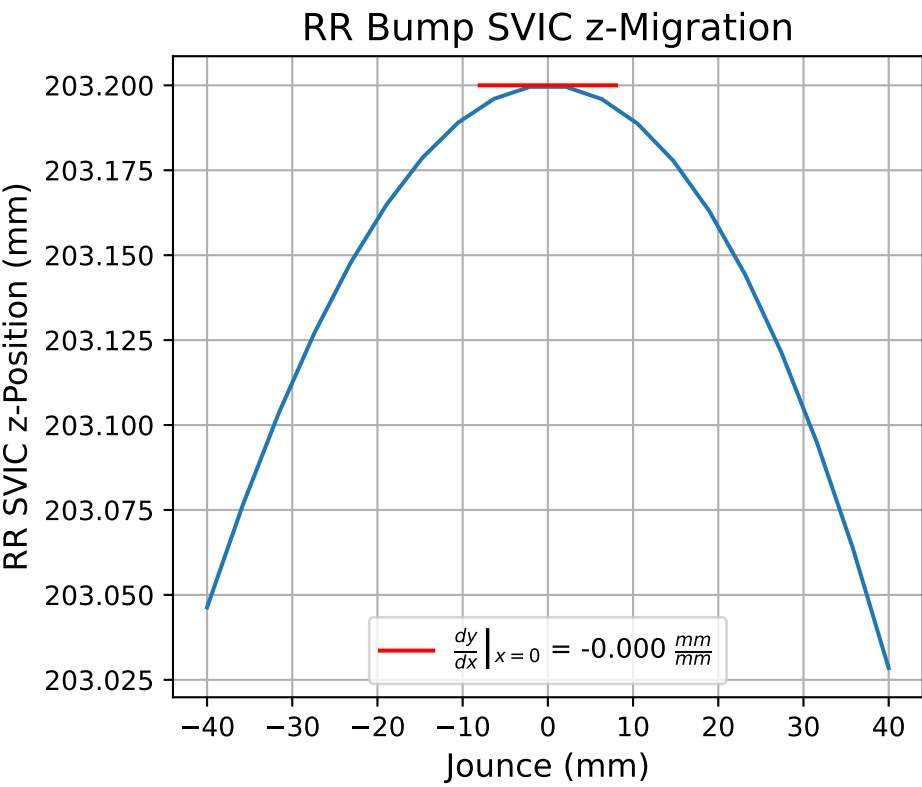
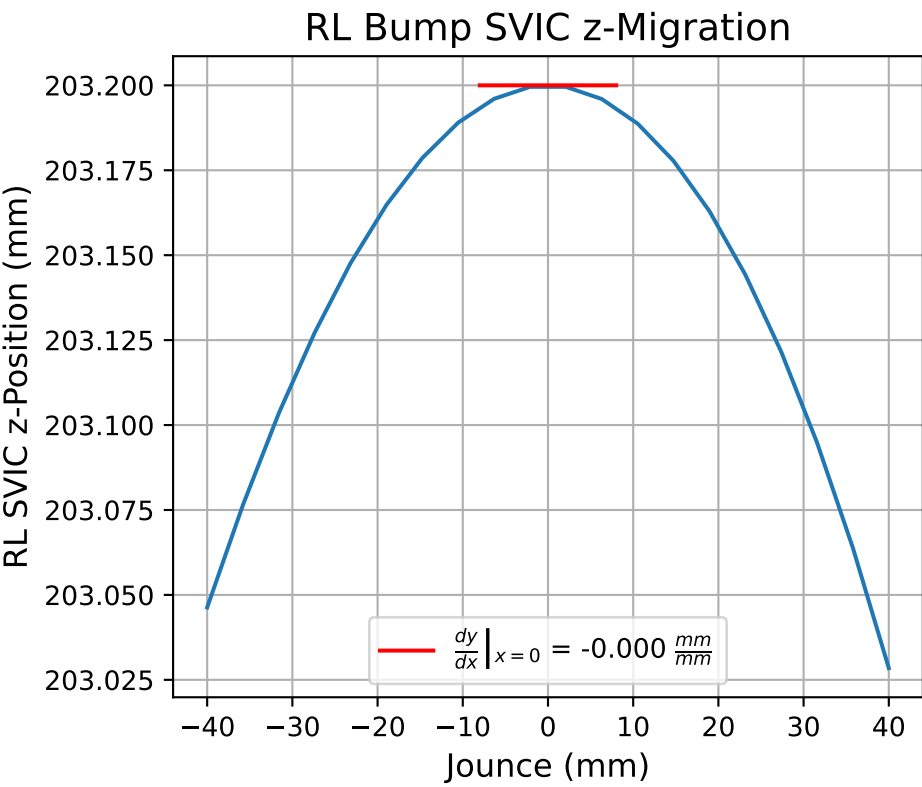
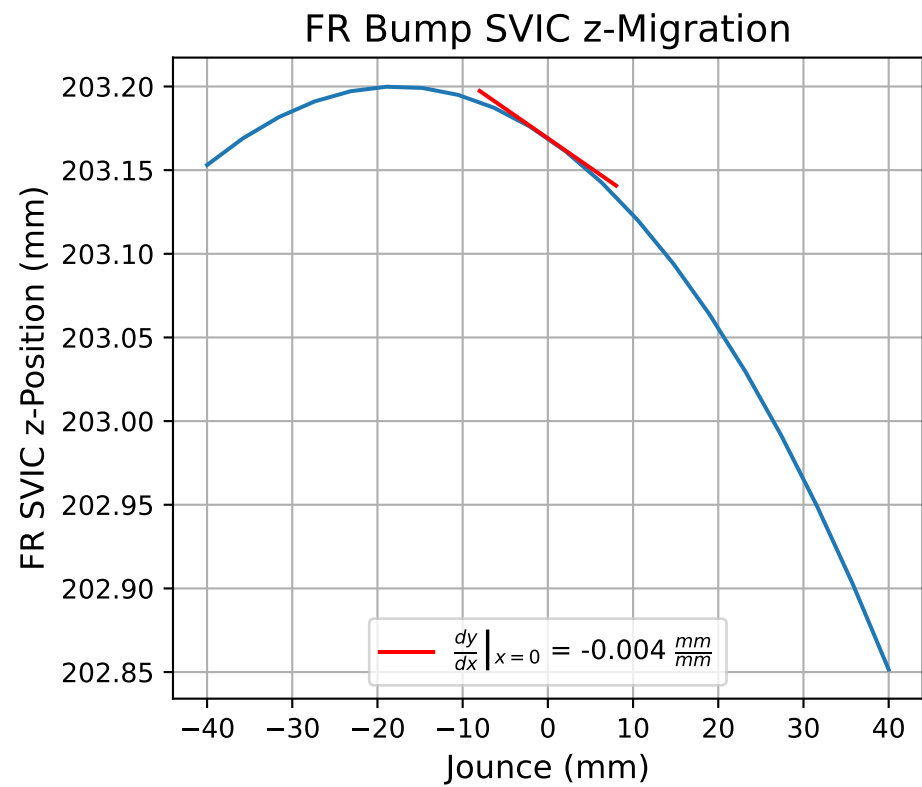
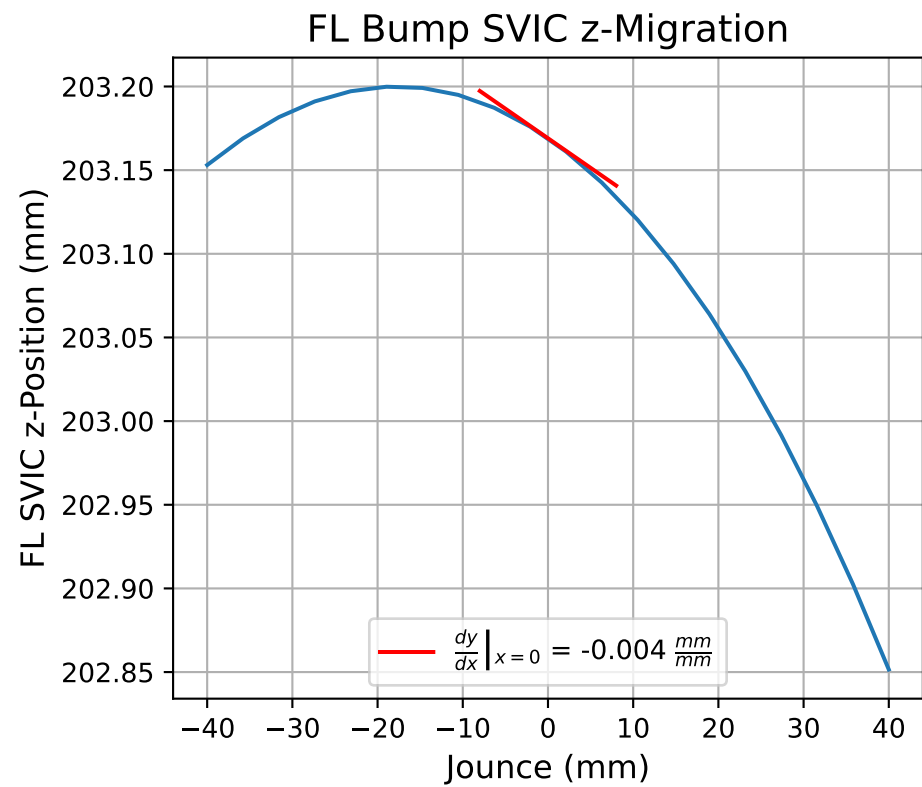
FL	$f(x) = 0.0x + 1.000e+12$
FR	$f(x) = 0.0x + 1.000e+12$
RL	$f(x) = 0.0x + 1.000e+12$
RR	$f(x) = 0.0x + 1.000e+12$



Cubic Fit

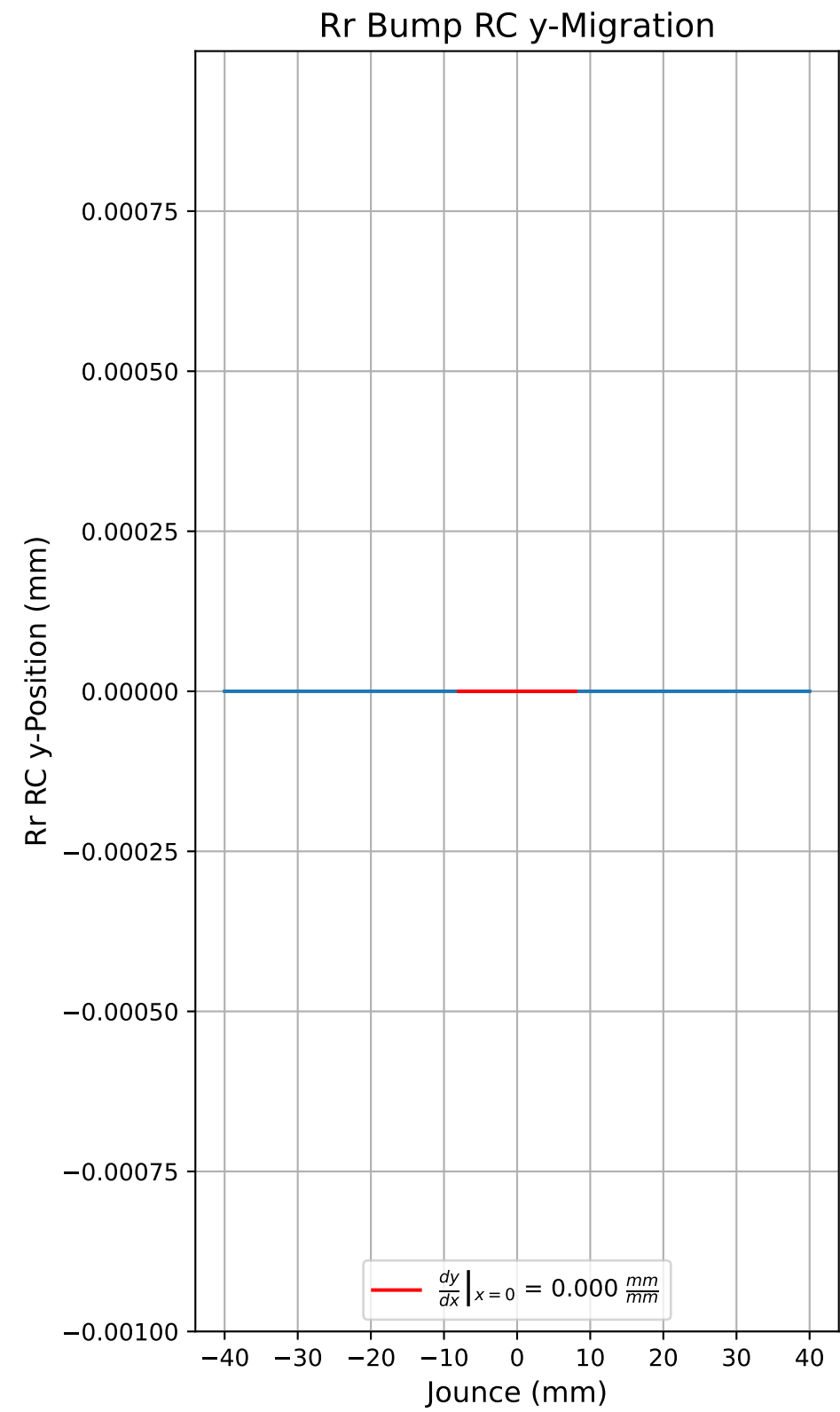
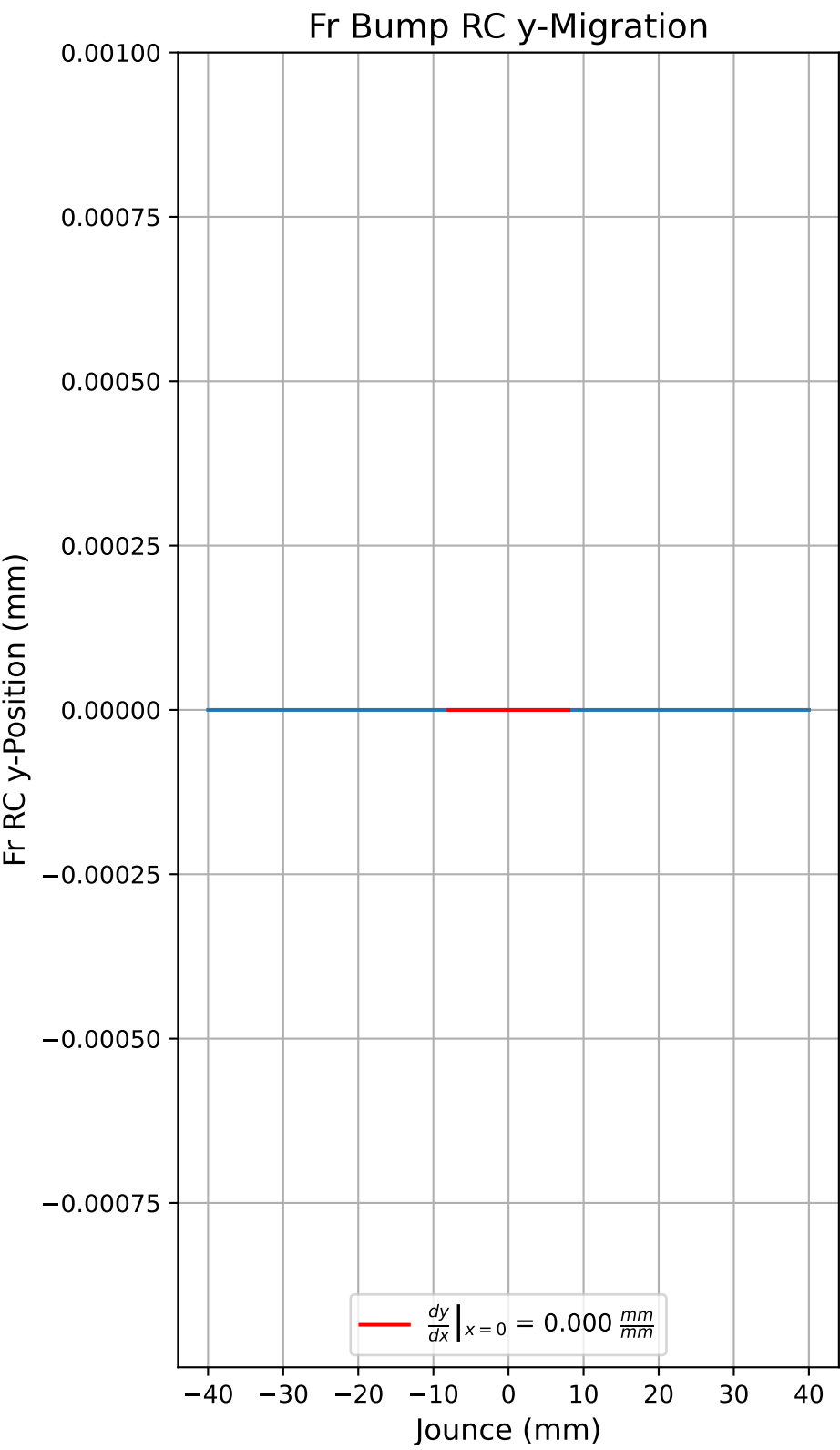
$$f(x) = a_3x^3 + a_2x^2 + a_1x + a_0$$

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	$f(x) = 0.0x^3 + -0.0x^2 + -0.0x + 1.0e+12$



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	$f(x) = -0.0x + 203.2$

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	$f(x) = -0.0x^3 + -0.0x^2 + 0.0x + 203.2$



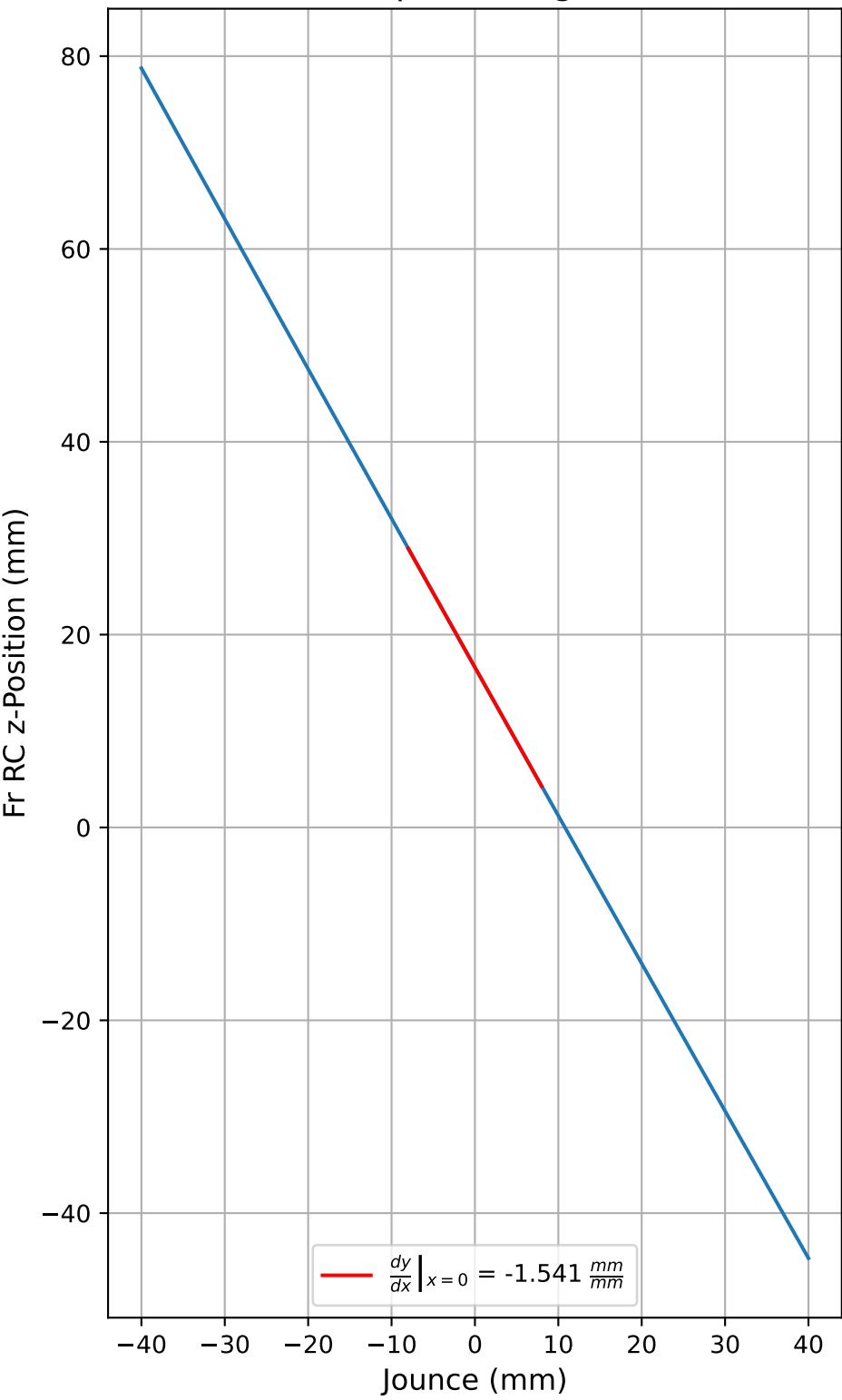
Nightwatch

FMU

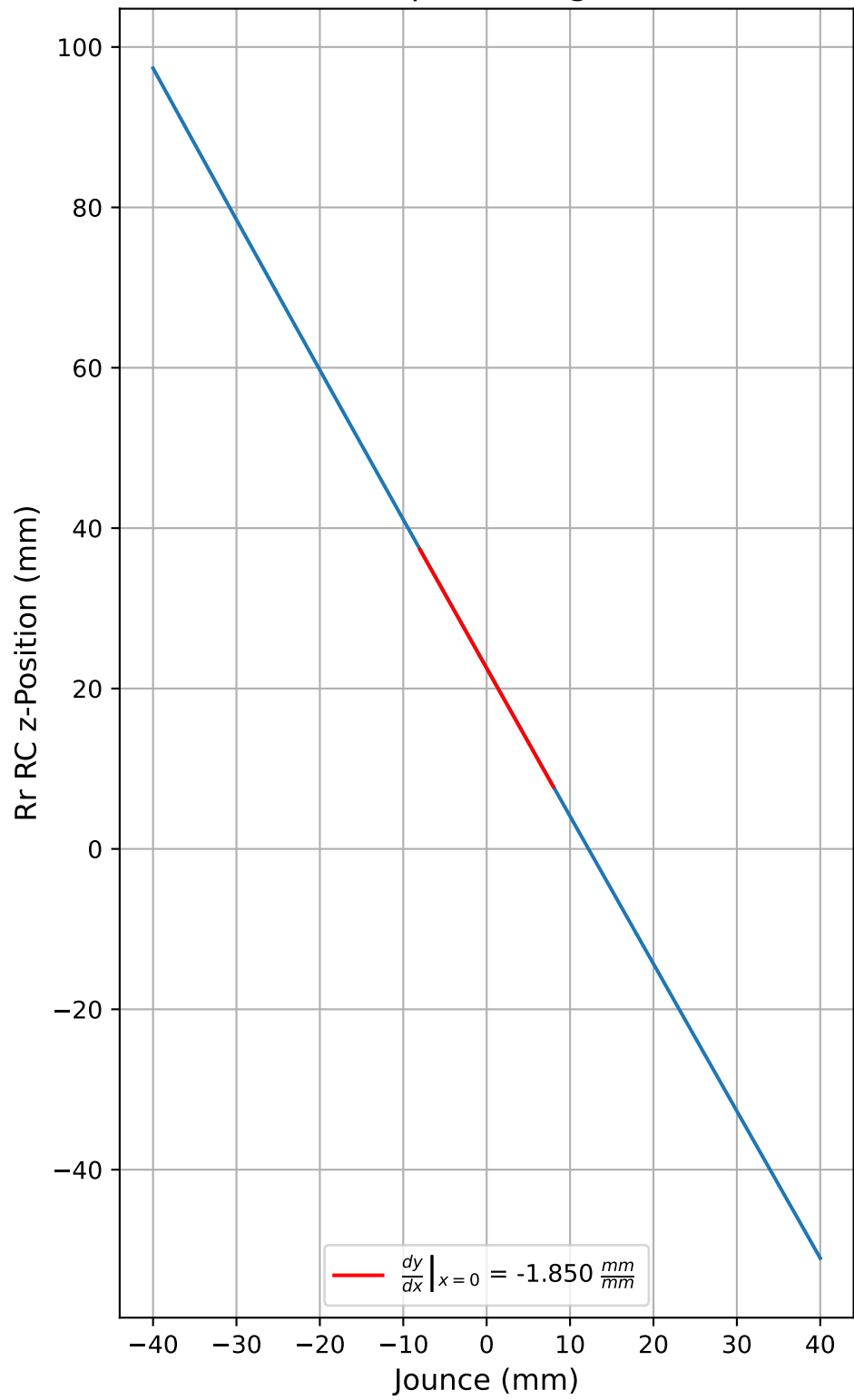
Linear Fit		$f(x) = a_1x + a_0$
Fr	$f(x) = 0.0x + -0.0$	
Rr	$f(x) = 0.0x + -0.0$	

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	$f(x) = 0.0x^3 + 0.0x^2 + -0.0x + -0.0$	

Fr Bump RC z-Migration



Rr Bump RC z-Migration



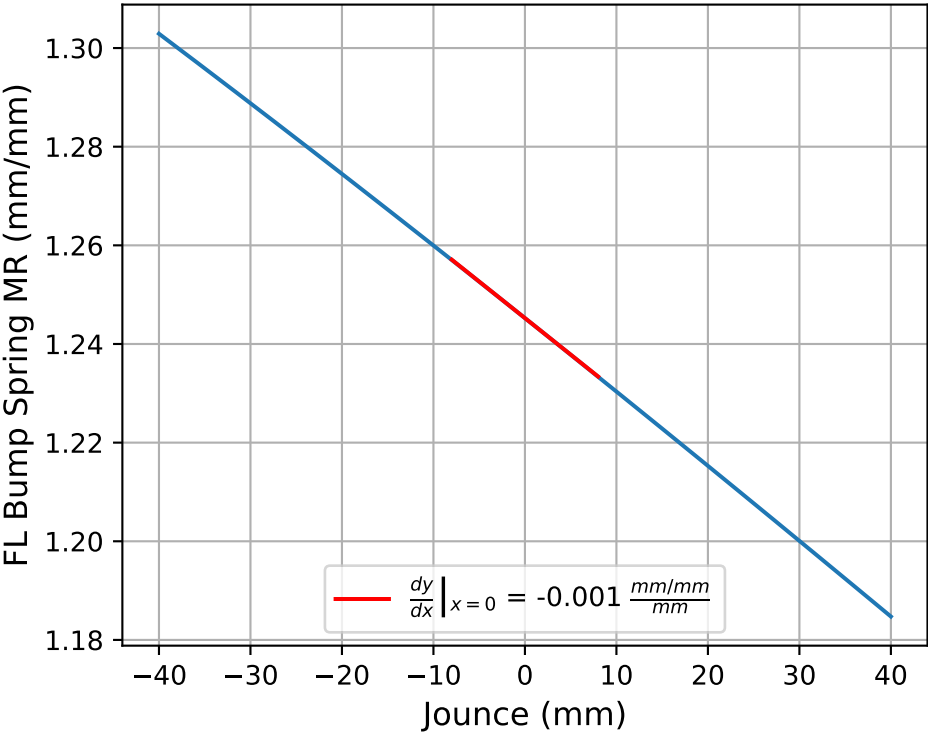
— Nightwatch
- - - FMU

Linear Fit		$f(x) = a_1x + a_0$
Fr	$f(x) = -1.541x + 16.608$	
Rr	$f(x) = -1.85x + 22.543$	

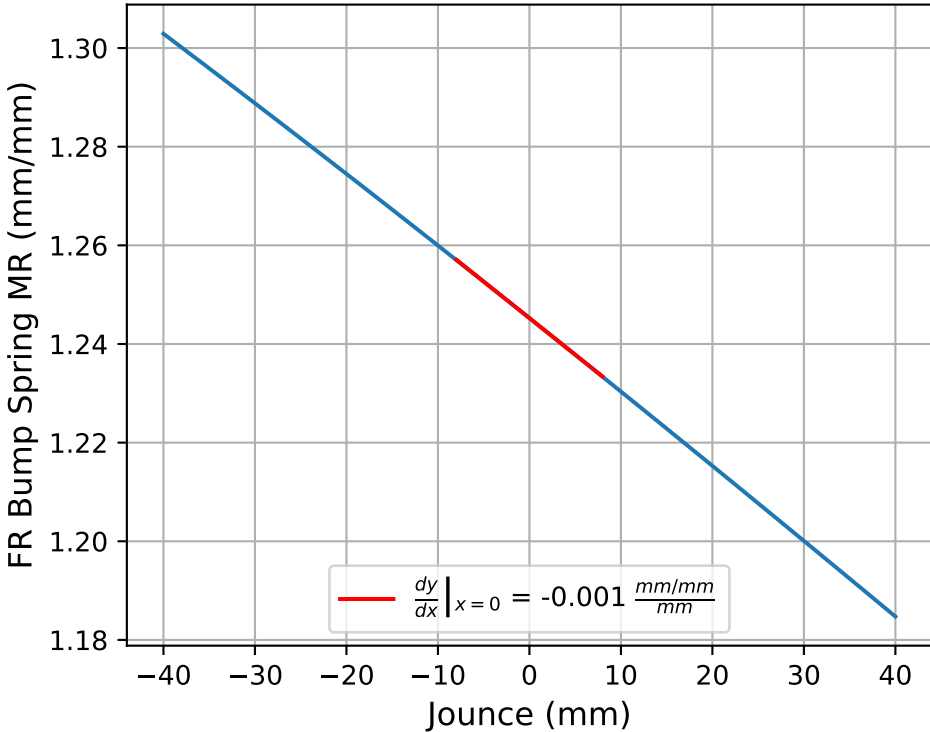
Cubic Fit		$f(x) = a_3x^3 + a_2x^2 + a_1x + a_0$
Fr	$f(x) = -0.0x^3 + 0.0x^2 + -1.541x + 16.607$	
Rr	$f(x) = -0.0x^3 + 0.0x^2 + -1.85x + 22.541$	



FL Bump Spring MRs



FR Bump Spring MRs

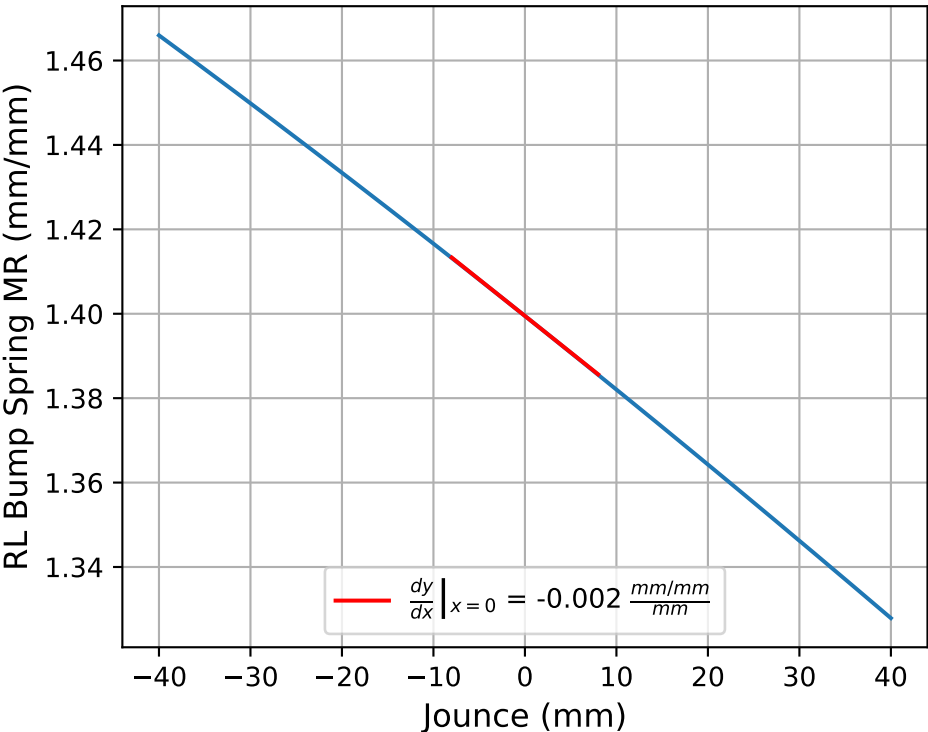


Linear Fit

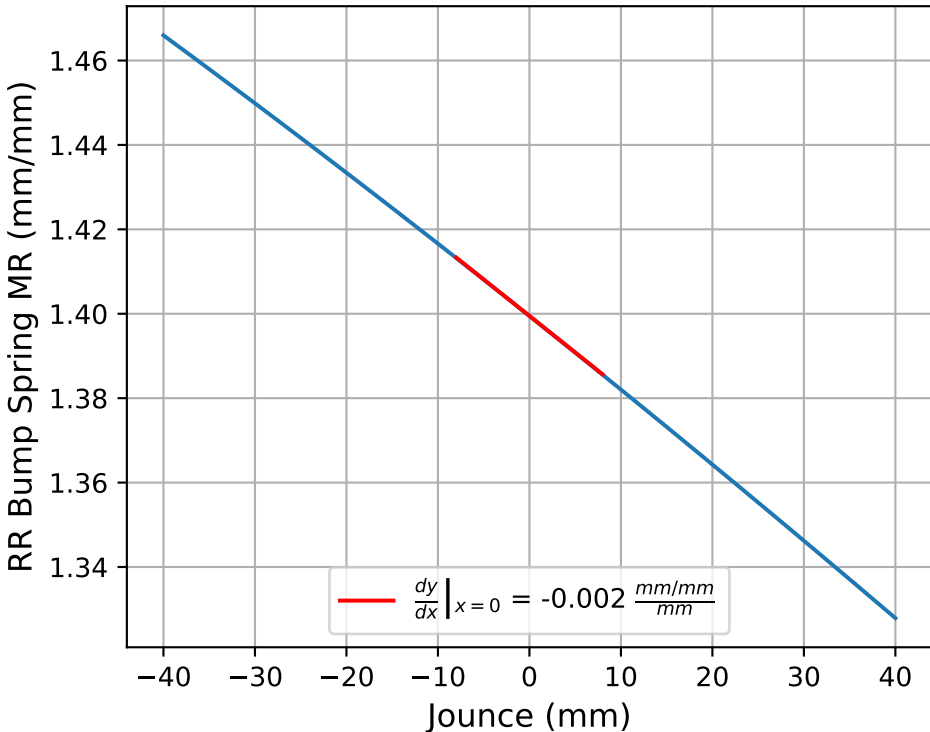
$f(x) = a_1x + a_0$

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



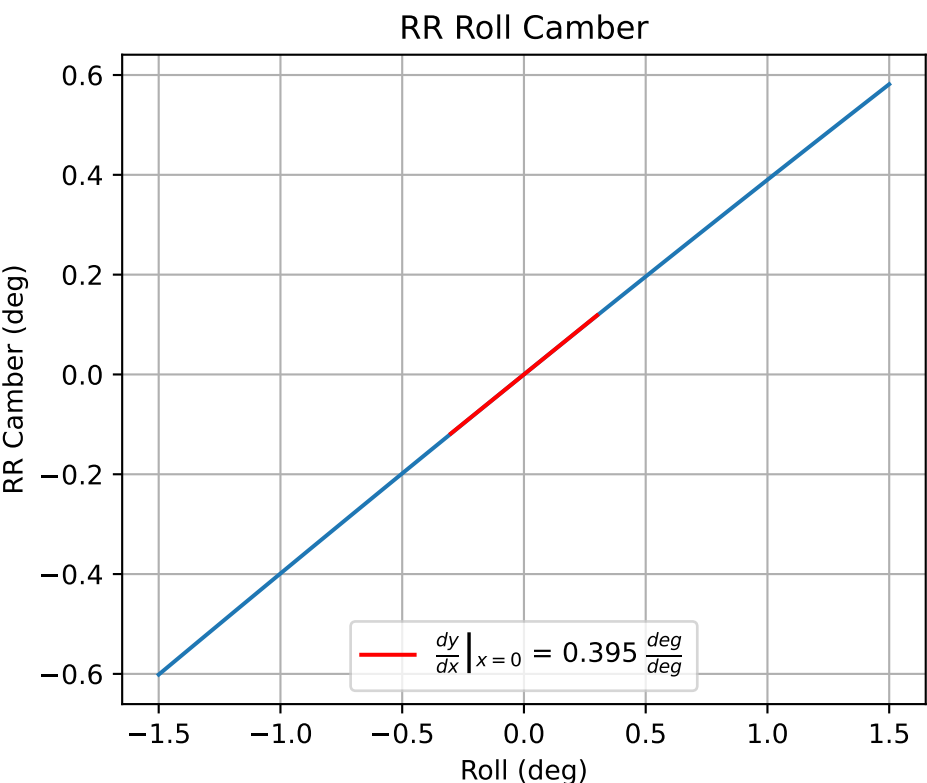
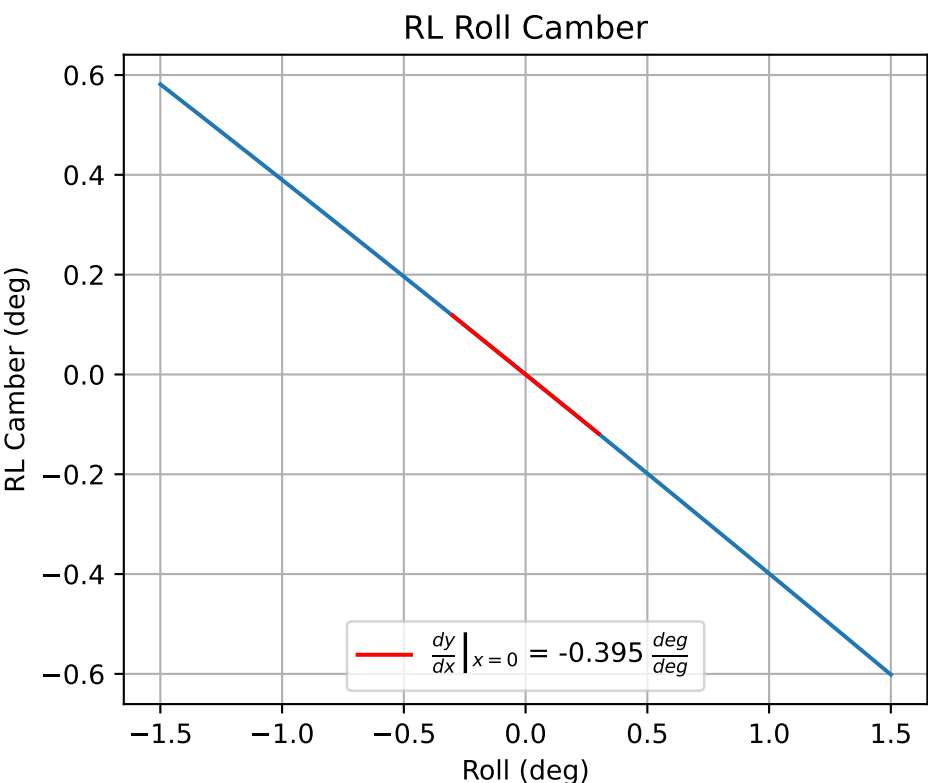
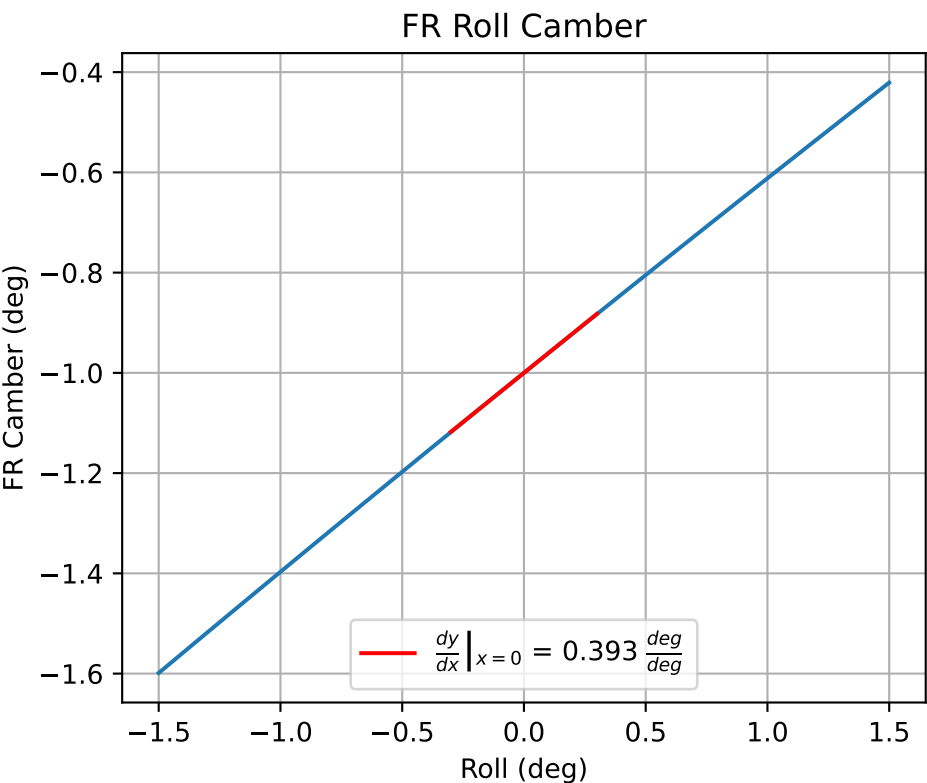
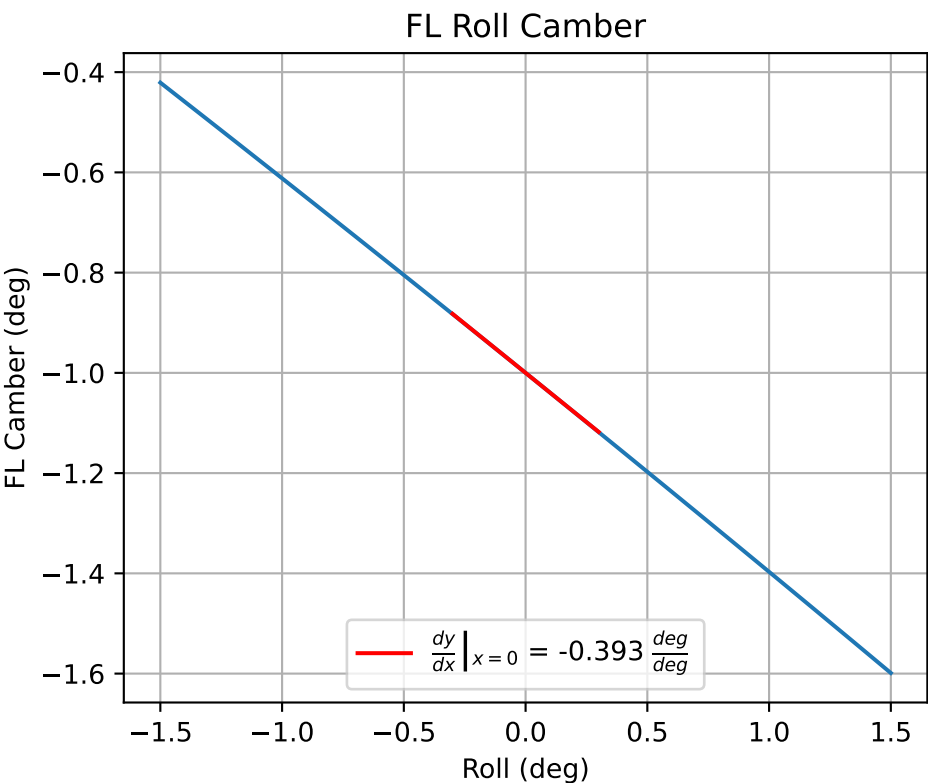
RR Bump Spring MRs



Cubic Fit

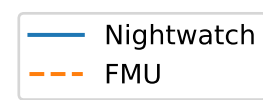
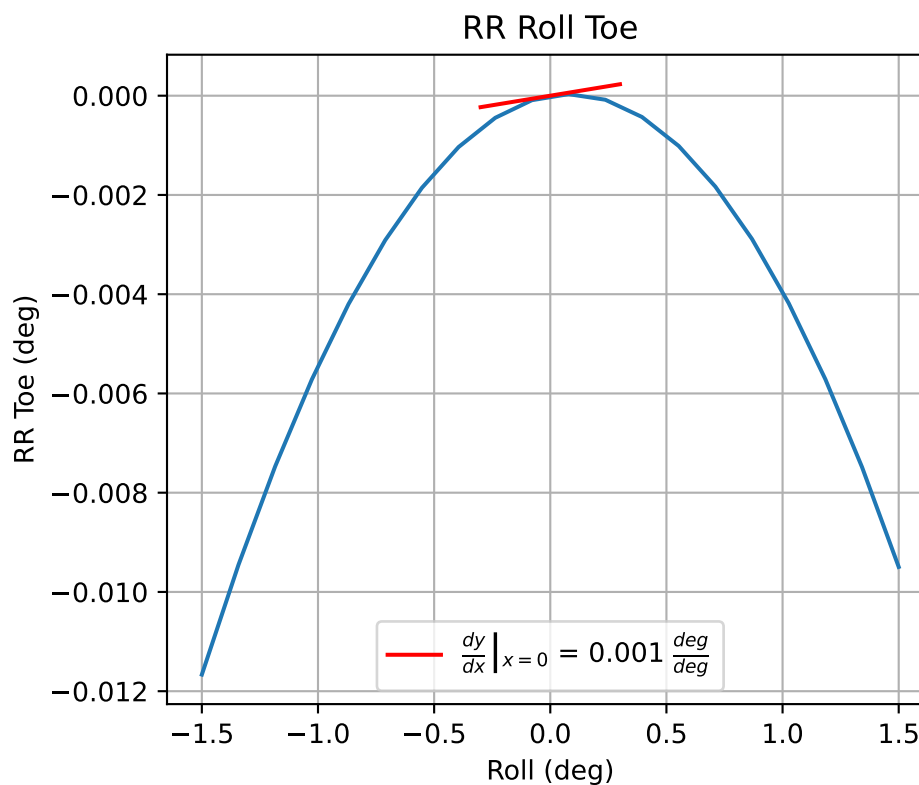
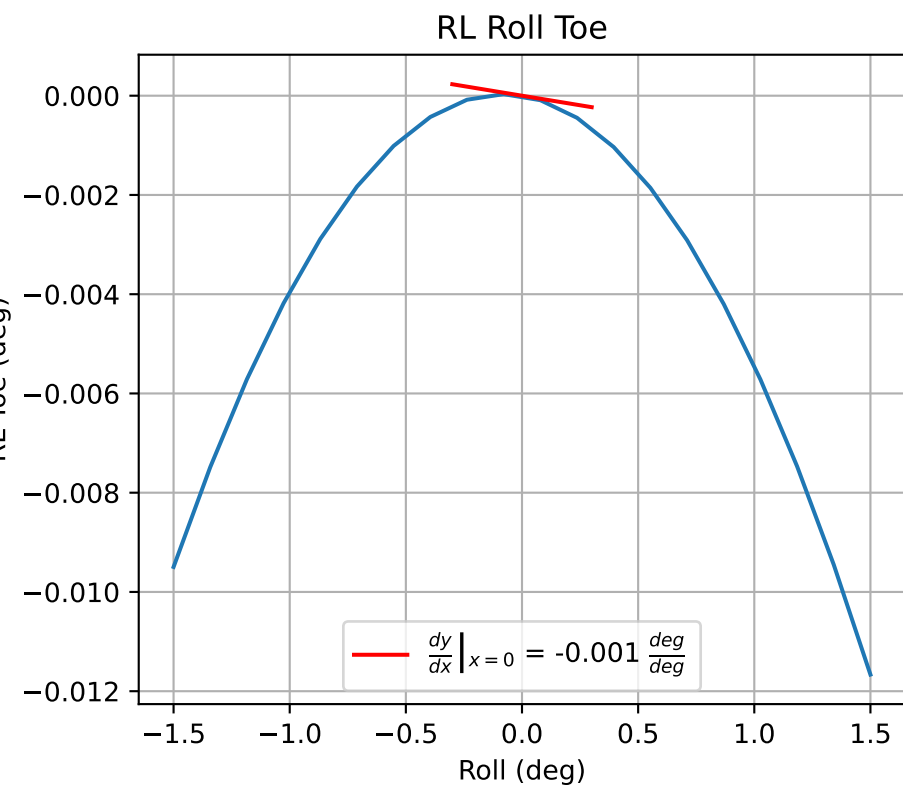
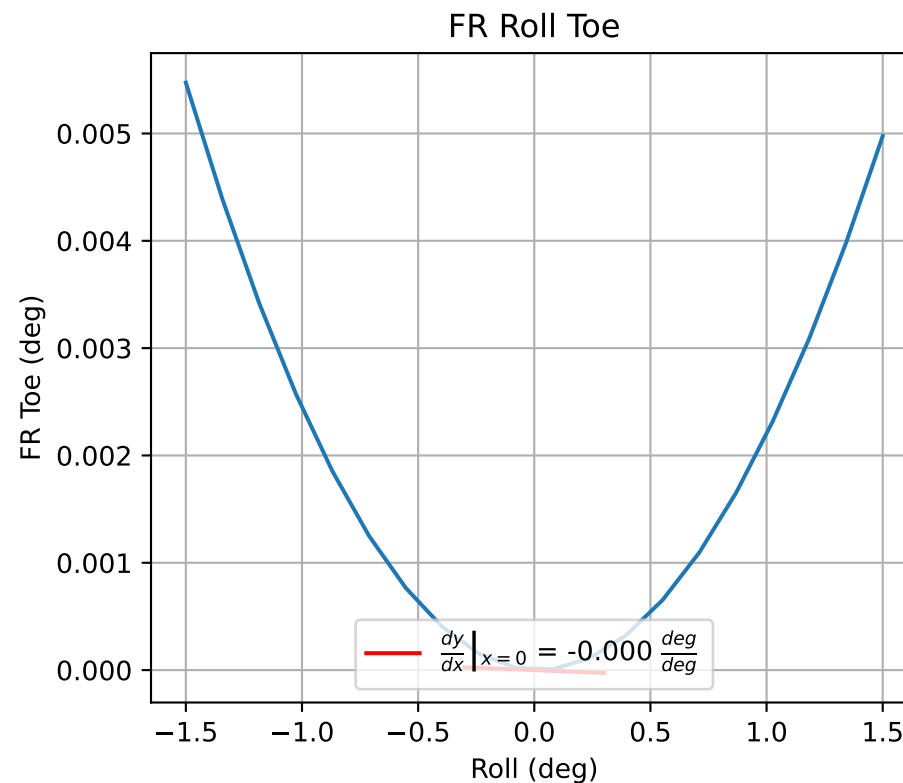
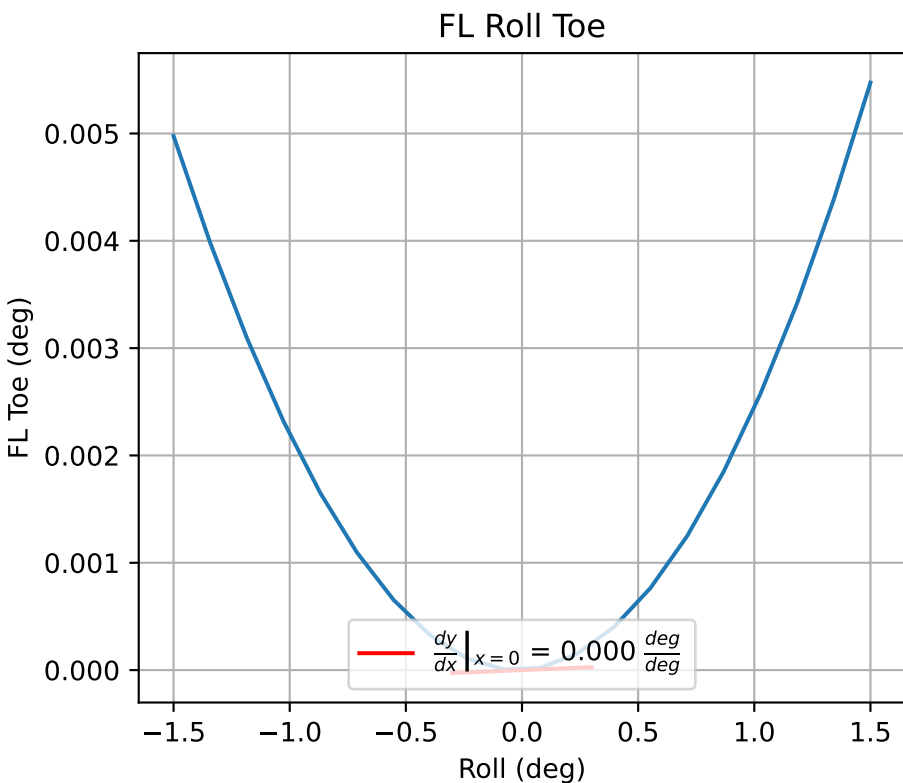
$f(x) = a_3x^3 + a_2x^2 + a_1x + a_0$

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	$f(x) = 0.0x^3 + -0.0x^2 + -0.002x + 1.399$



Linear Fit		$f(x) = a_1x + a_0$
FL		$f(x) = -0.393x + -1.0$
FR		$f(x) = 0.393x + -1.0$
RL		$f(x) = -0.395x + 0.0$
RR		$f(x) = 0.395x + 0.0$

Cubic Fit		$f(x) = a_3x^3 + a_2x^2 + a_1x + a_0$
FL		$f(x) = -0.0x^3 + -0.004x^2 + -0.393x + -1.0$
FR		$f(x) = 0.0x^3 + -0.004x^2 + 0.393x + -1.0$
RL		$f(x) = 0.0x^3 + -0.004x^2 + -0.395x + 0.0$
RR		$f(x) = -0.0x^3 + -0.004x^2 + 0.395x + 0.0$

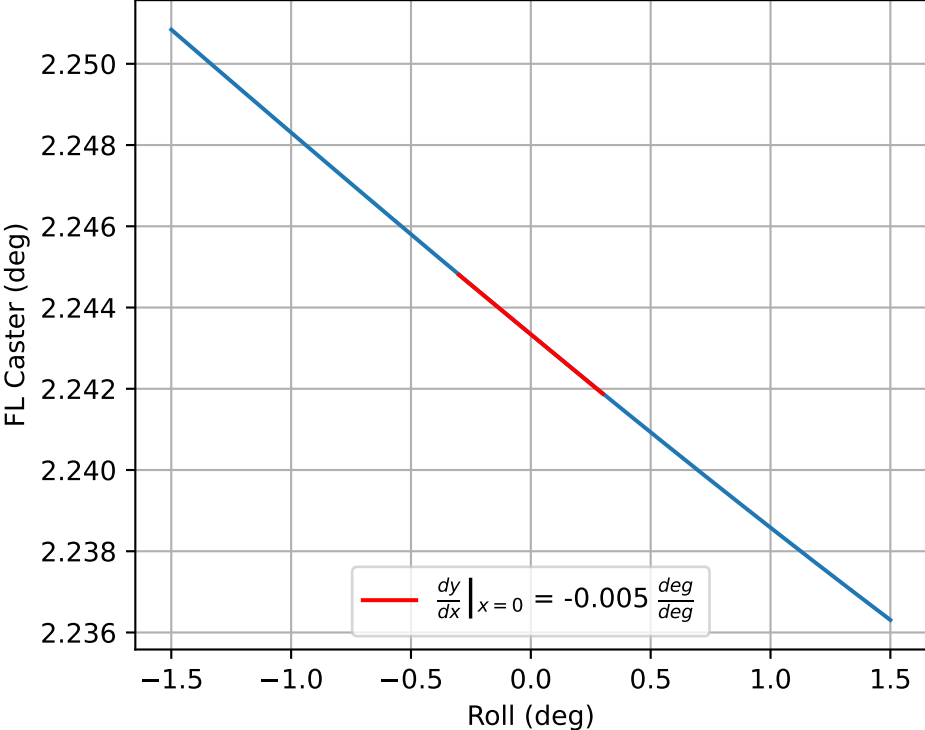


Linear Fit		$f(x) = a_1x + a_0$
FL		$f(x) = 0.0x + -0.0$
FR		$f(x) = -0.0x + -0.0$
RL		$f(x) = -0.001x + 0.0$
RR		$f(x) = 0.001x + 0.0$

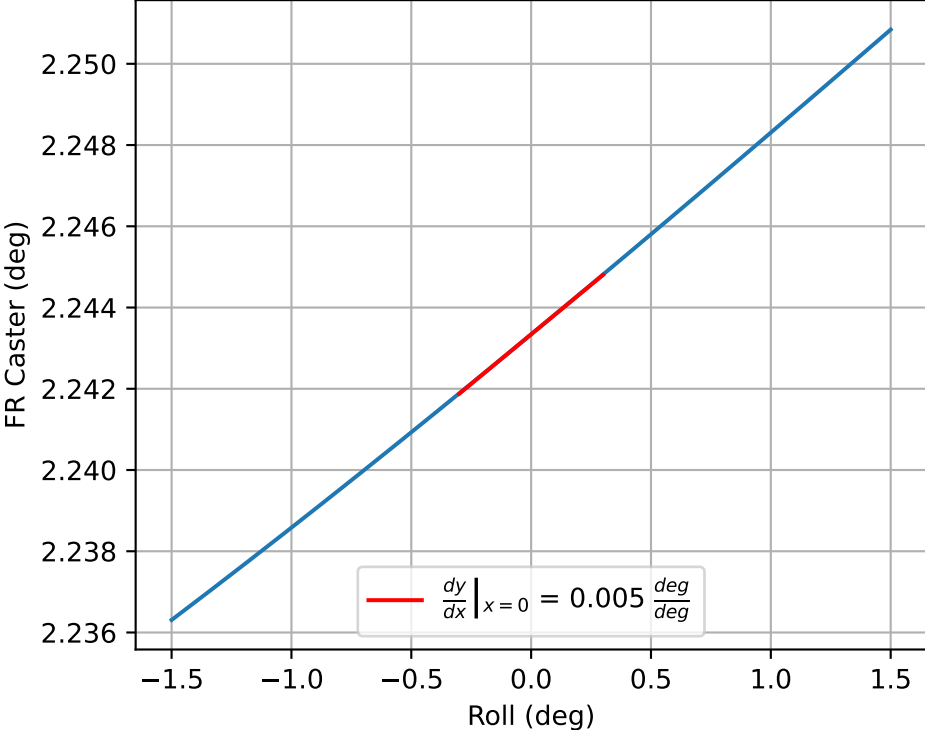
Cubic Fit		$f(x) = a_3x^3 + a_2x^2 + a_1x + a_0$
FL		$f(x) = 0.0x^3 + 0.002x^2 + 0.0x + -0.0$
FR		$f(x) = -0.0x^3 + 0.002x^2 + -0.0x + -0.0$
RL		$f(x) = 0.0x^3 + -0.005x^2 + -0.001x + 0.0$
RR		$f(x) = -0.0x^3 + -0.005x^2 + 0.001x + 0.0$



FL Roll Caster



FR Roll Caster

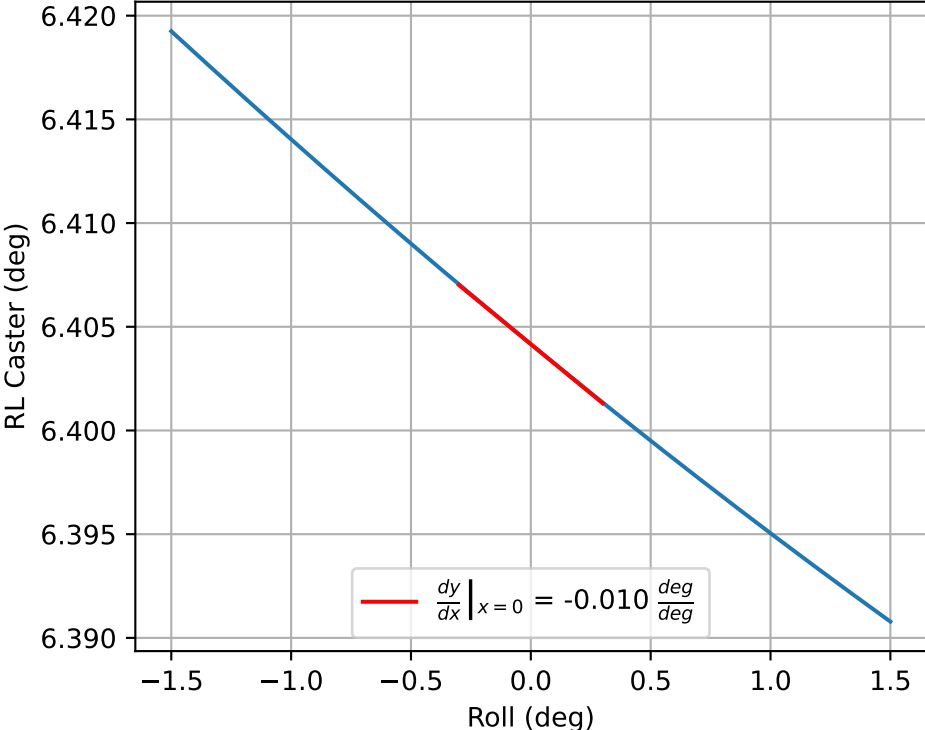


Linear Fit

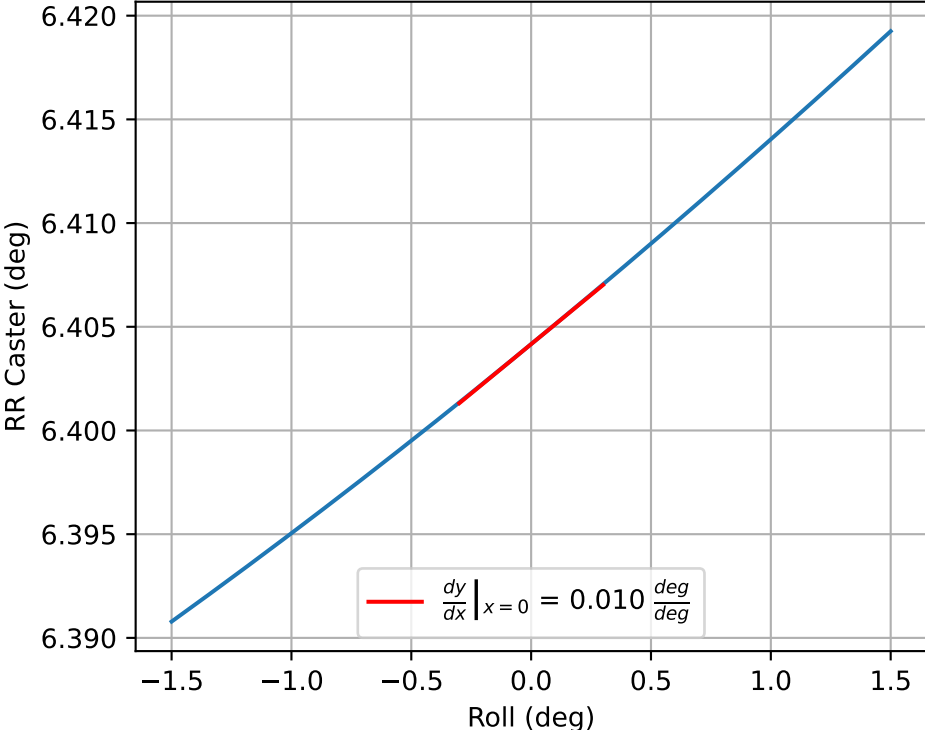
$$f(x) = a_1x + a_0$$

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



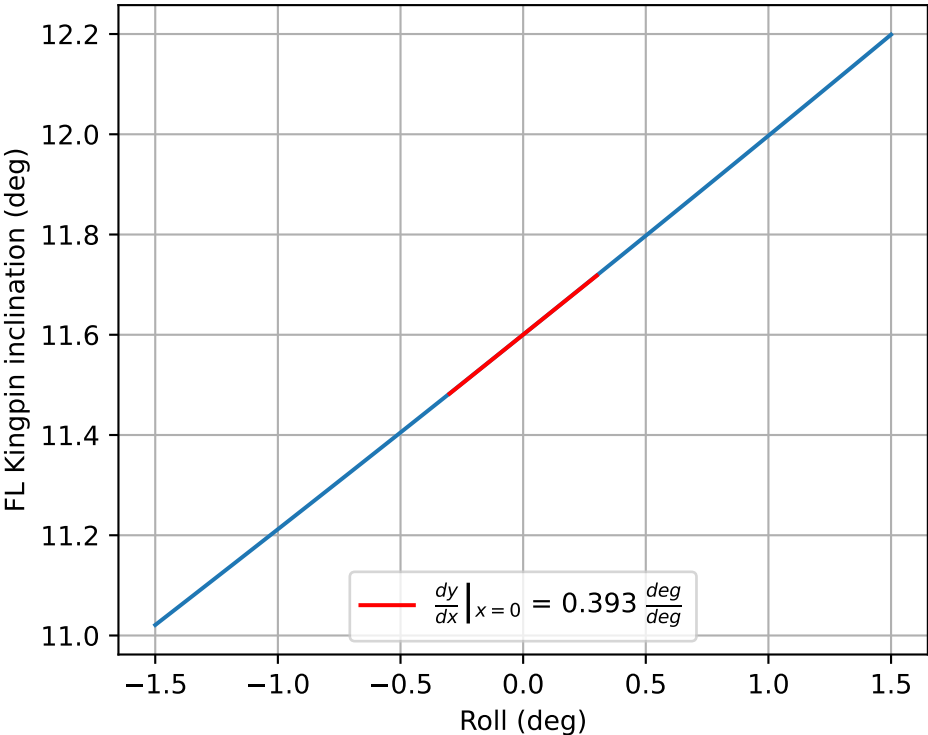
Cubic Fit

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

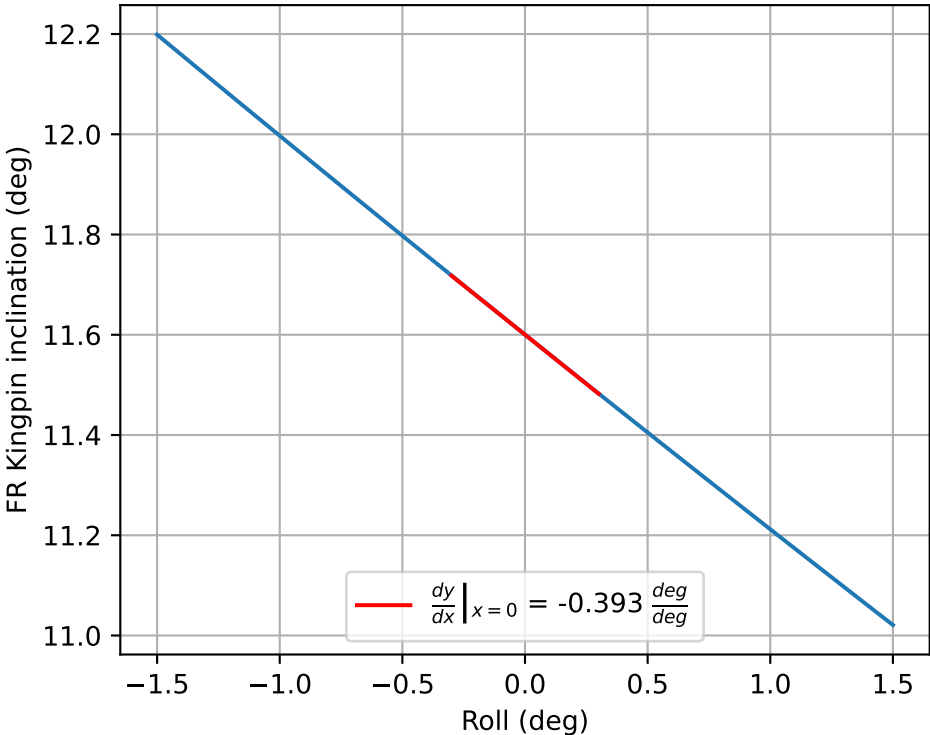
FL	$f(x) = 0.0x^3 + 0.0x^2 + -0.005x + 2.243$
FR	$f(x) = -0.0x^3 + 0.0x^2 + 0.005x + 2.243$
RL	$f(x) = 0.0x^3 + 0.0x^2 + -0.01x + 6.404$
RR	$f(x) = -0.0x^3 + 0.0x^2 + 0.01x + 6.404$



FL Roll KPI



FR Roll KPI

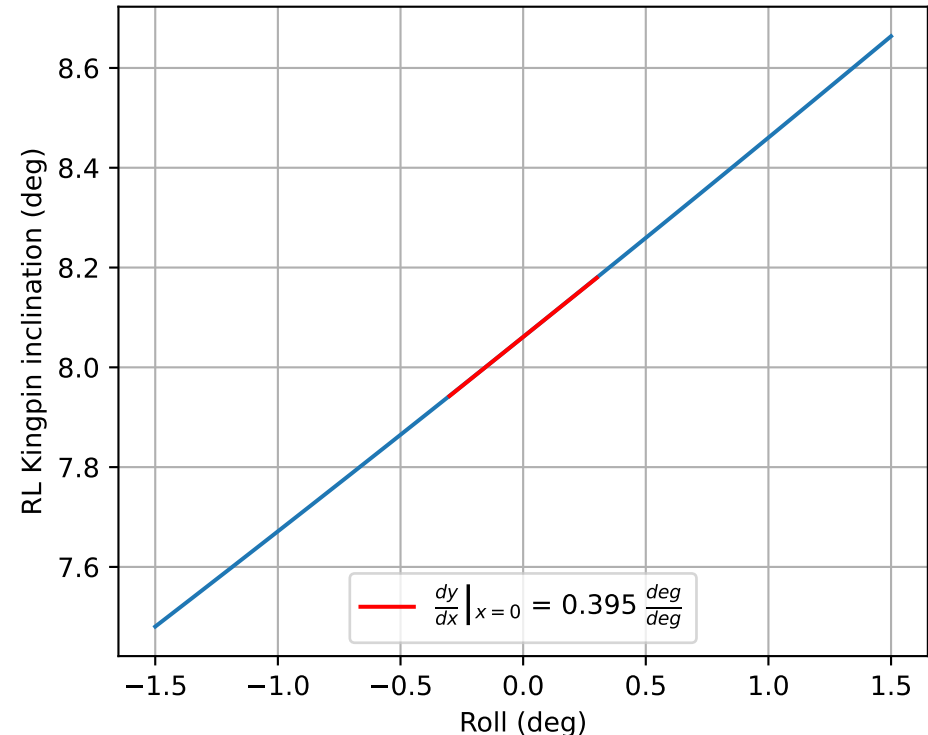


Linear Fit

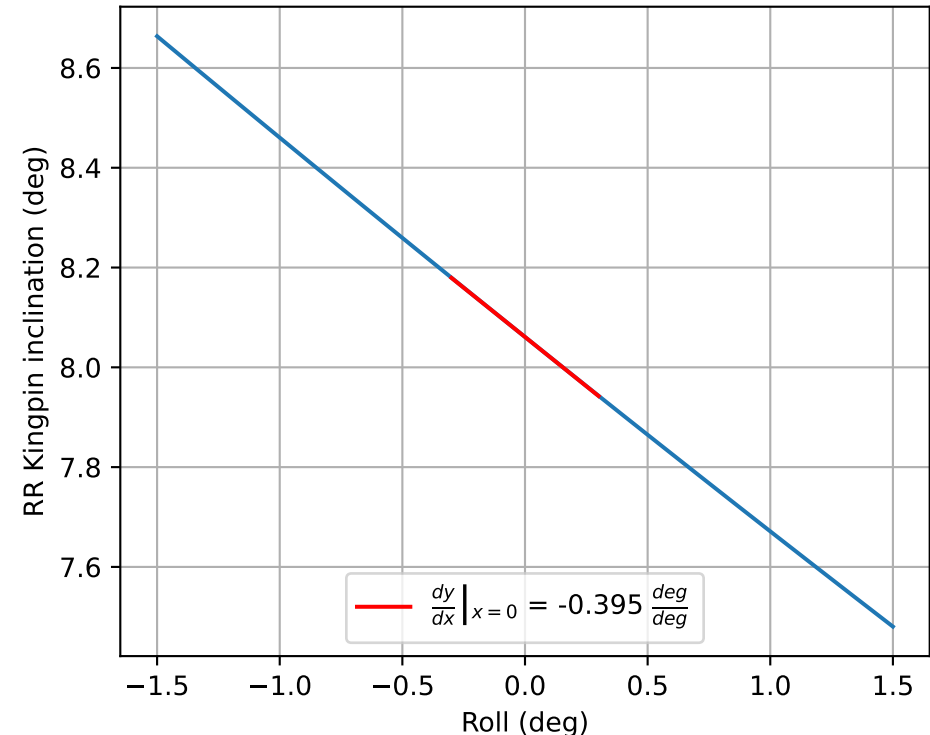
$f(x) = a_1x + a_0$

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

RL Roll KPI



RR Roll KPI



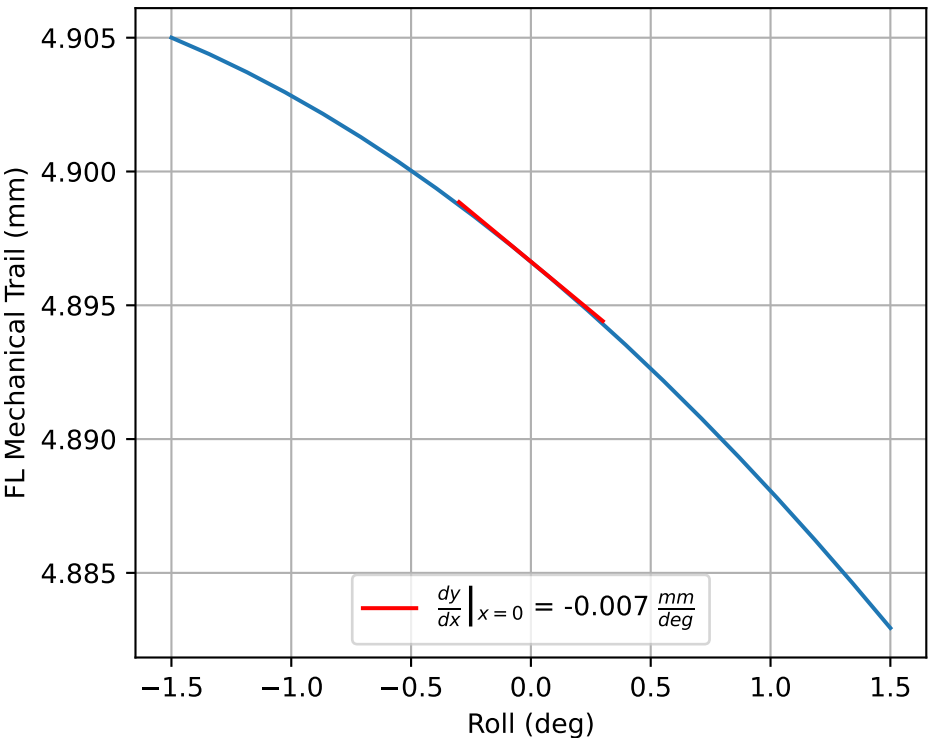
Cubic Fit

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

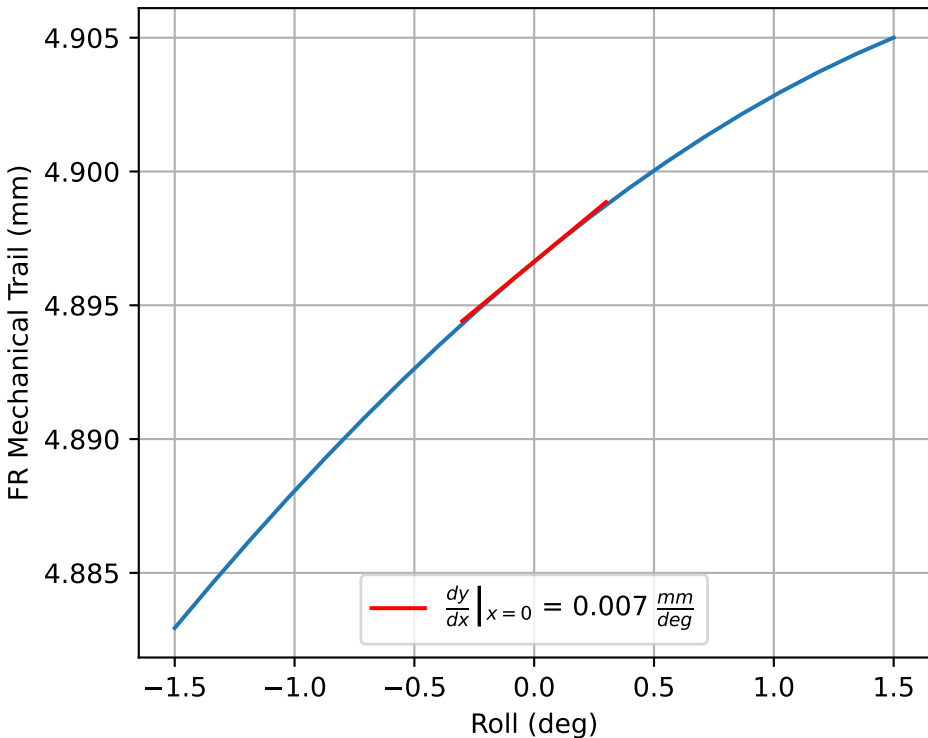
FL	$f(x) = 0.0x^3 + 0.004x^2 + 0.393x + 11.6$
FR	$f(x) = -0.0x^3 + 0.004x^2 + -0.393x + 11.6$
RL	$f(x) = -0.0x^3 + 0.005x^2 + 0.395x + 8.061$
RR	$f(x) = 0.0x^3 + 0.005x^2 + -0.395x + 8.061$



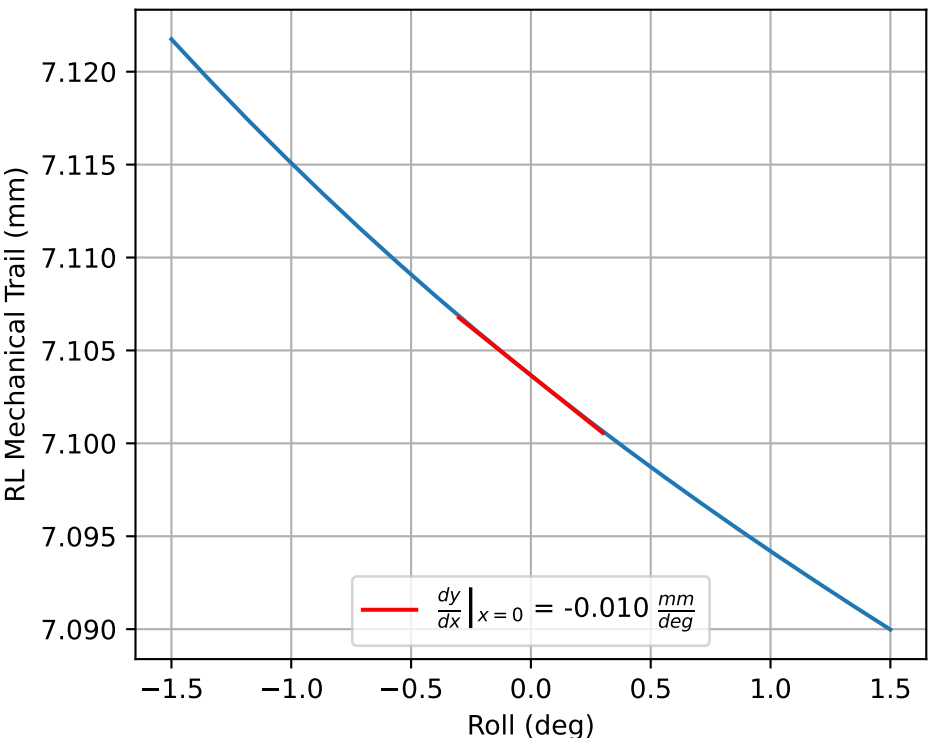
FL Roll Mechanical Trail



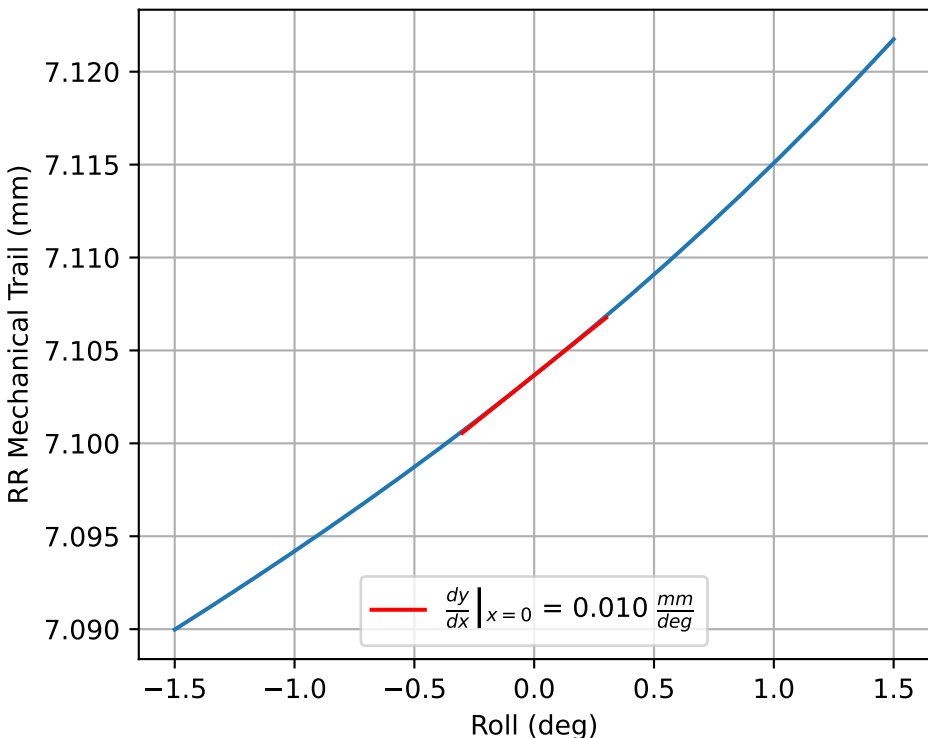
FR Roll Mechanical Trail



RL Roll Mechanical Trail



RR Roll Mechanical Trail



Linear Fit

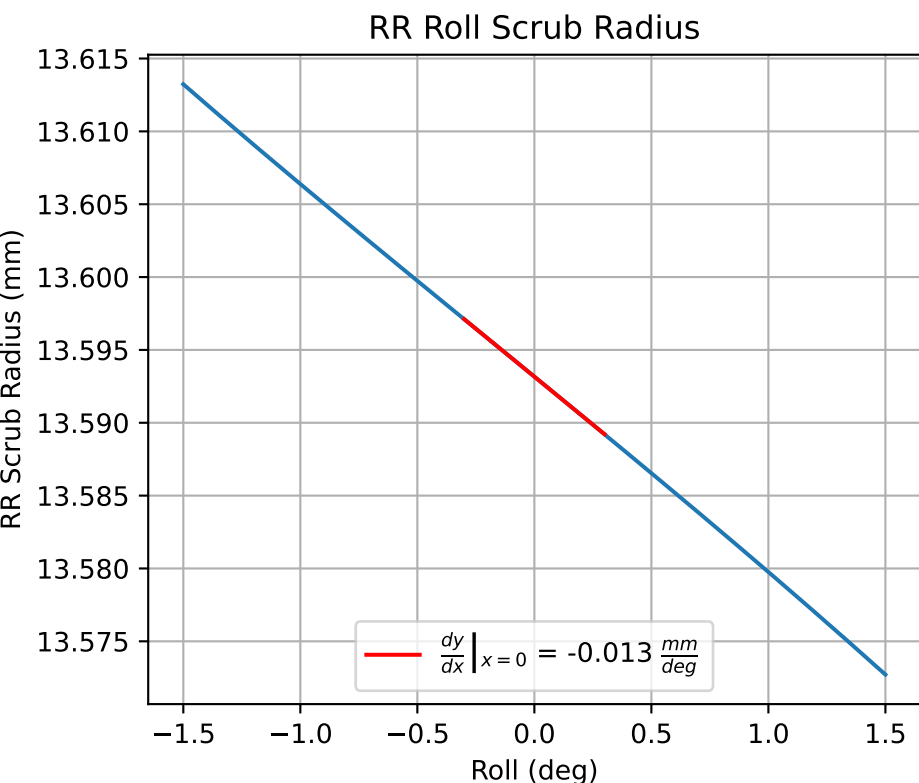
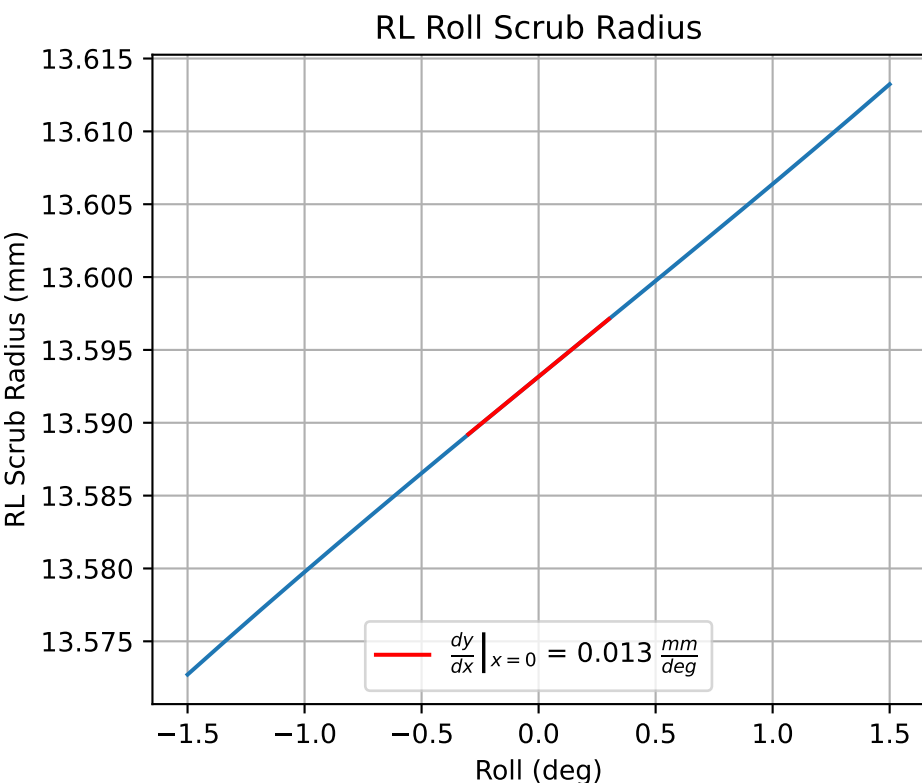
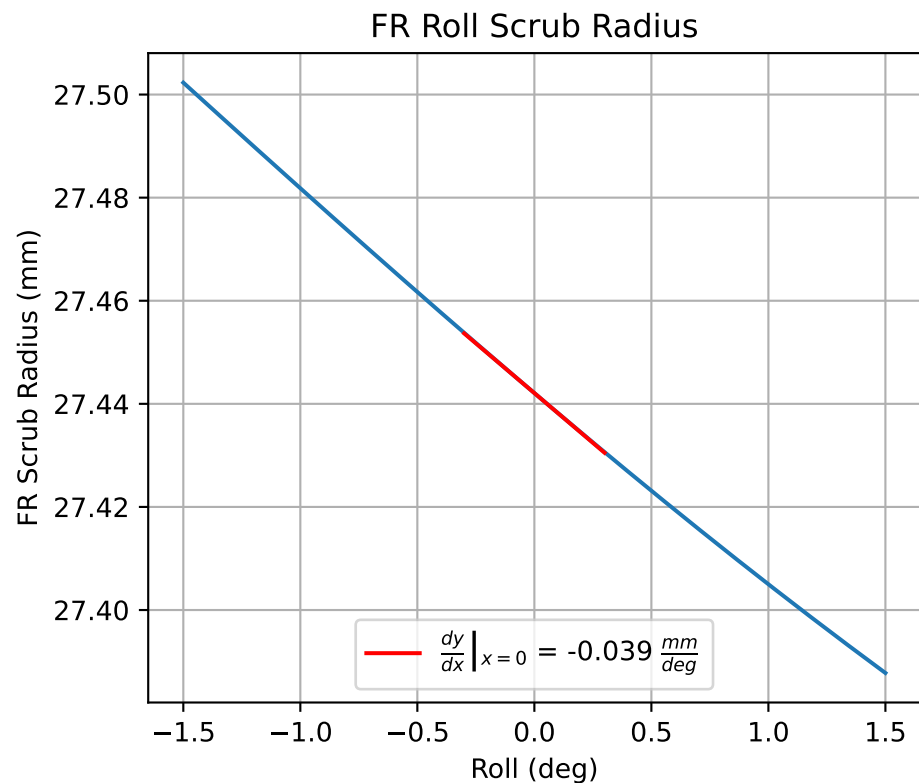
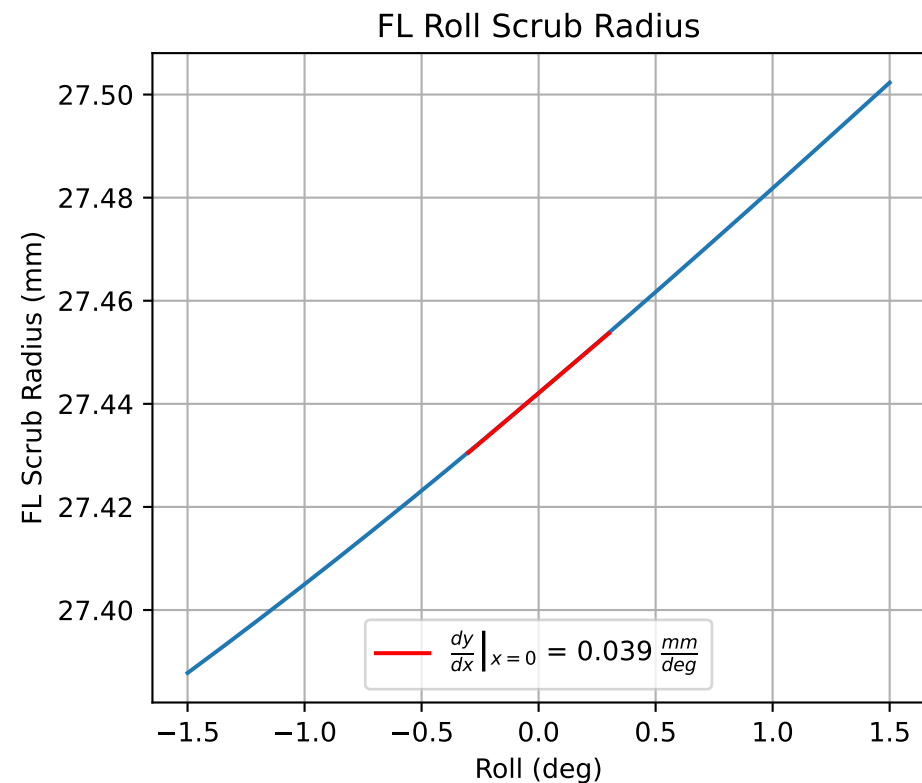
$$f(x) = a_1x + a_0$$

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

Cubic Fit

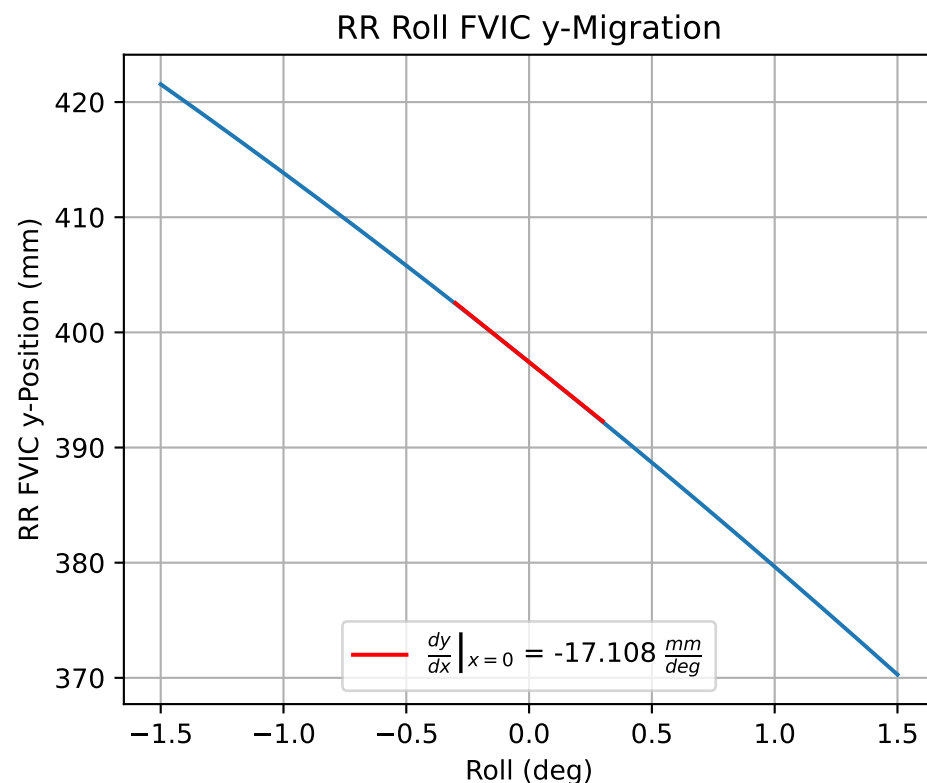
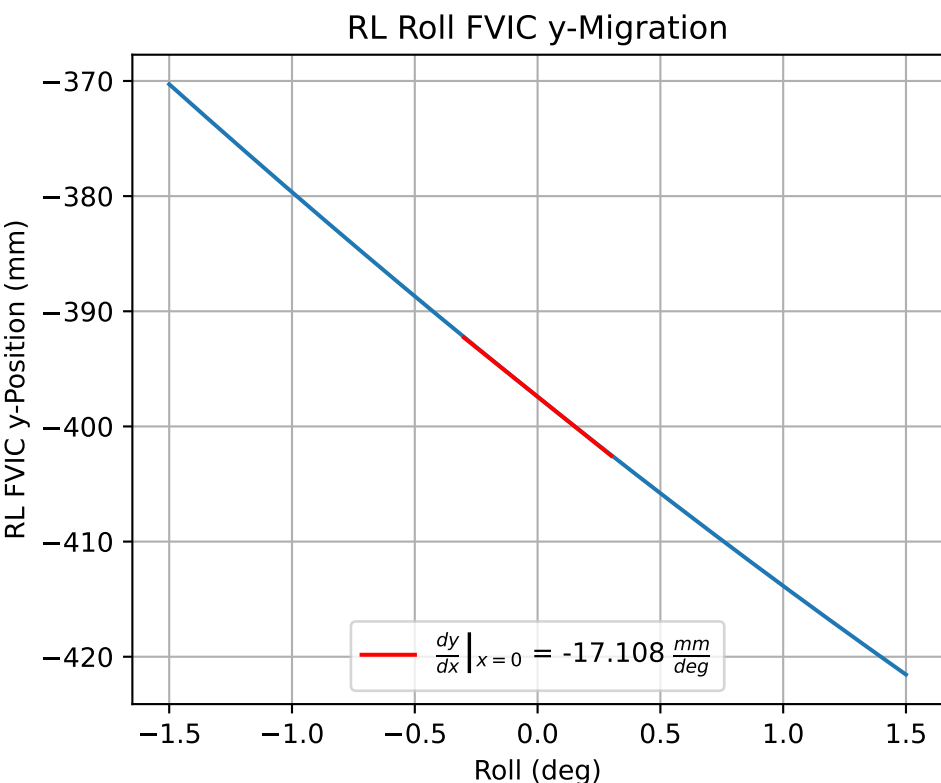
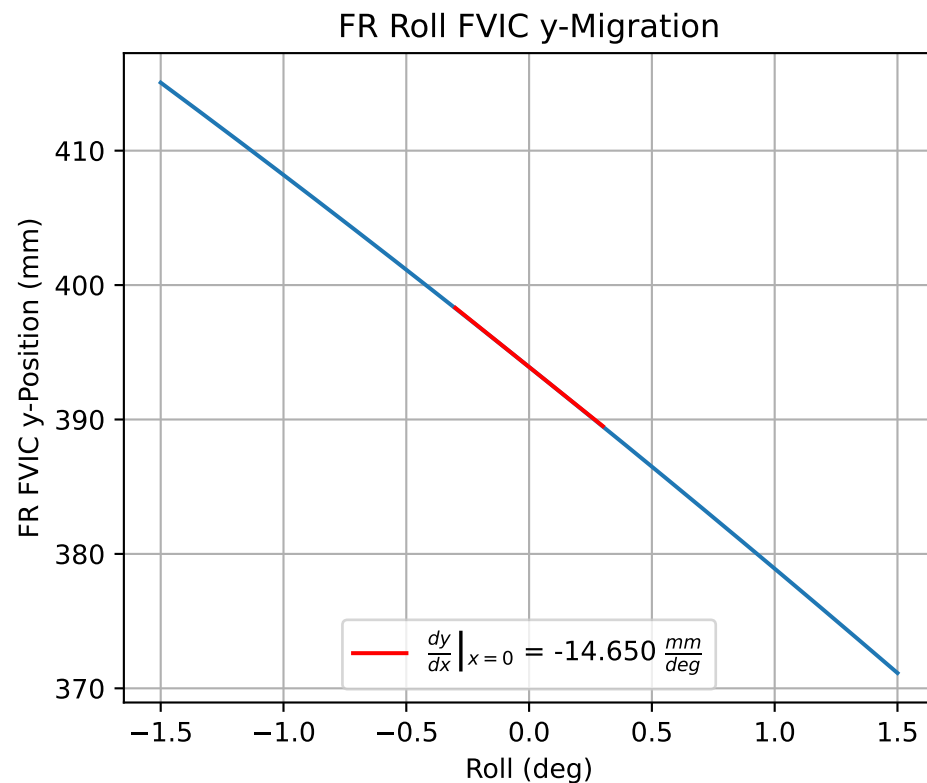
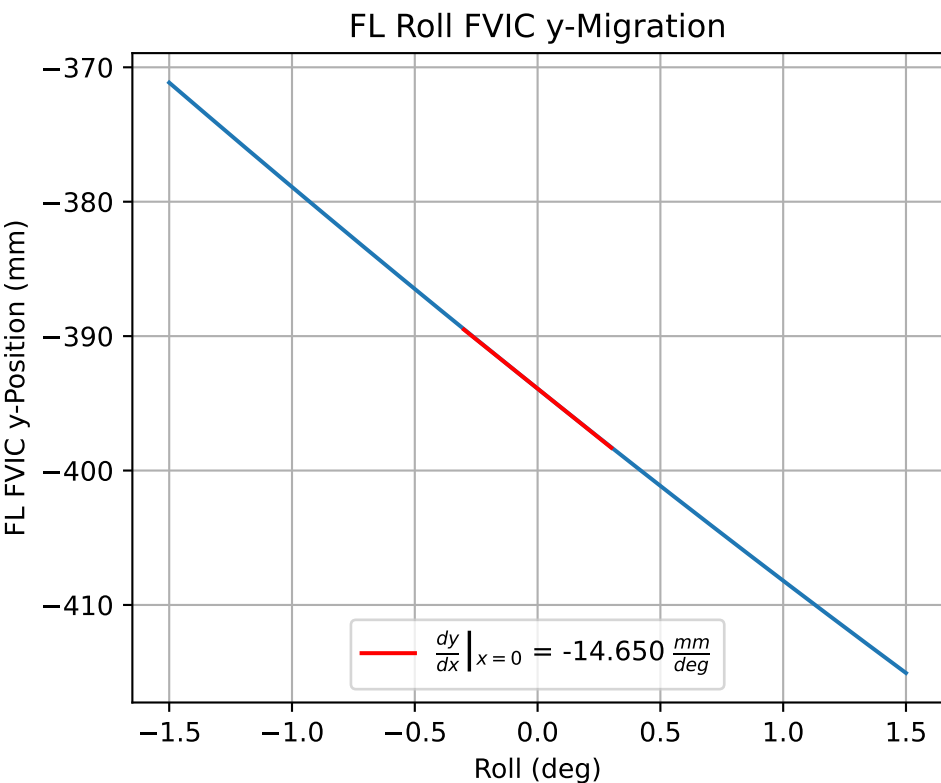
$$f(x) = a_3x^3 + a_2x^2 + a_1x + a_0$$

FL	$f(x) = 0.0x^3 + -0.001x^2 + -0.007x + 4.897$
FR	$f(x) = -0.0x^3 + -0.001x^2 + 0.007x + 4.897$
RL	$f(x) = -0.0x^3 + 0.001x^2 + -0.01x + 7.104$
RR	$f(x) = 0.0x^3 + 0.001x^2 + 0.01x + 7.104$



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		$f(x) = -0.013x + 13.593$

Cubic Fit		$f(x) = a_3x^3 + a_2x^2 + a_1x + a_0$
FL		$f(x) = -0.0x^3 + 0.001x^2 + 0.039x + 27.442$
FR		$f(x) = 0.0x^3 + 0.001x^2 + -0.039x + 27.442$
RL		$f(x) = 0.0x^3 + -0.0x^2 + 0.013x + 13.593$
RR		$f(x) = -0.0x^3 + -0.0x^2 + -0.013x + 13.593$



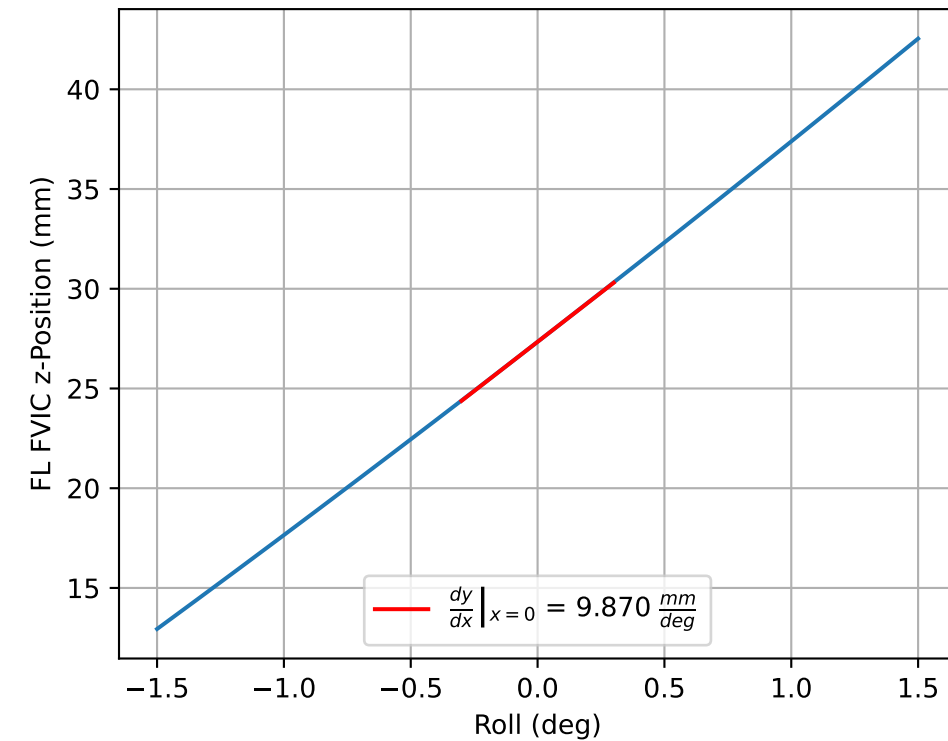
Nightwatch

FMU

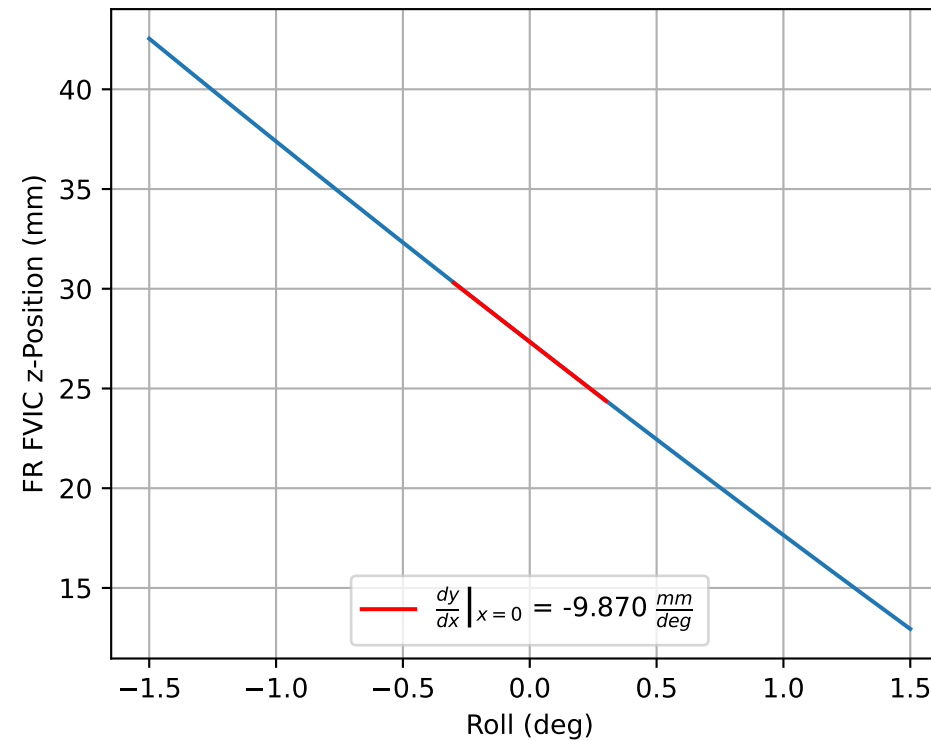
Linear Fit		$f(x) = a_1x + a_0$
FL	$f(x) = -14.65x + -393.907$	
FR	$f(x) = -14.65x + 393.907$	
RL	$f(x) = -17.108x + -397.417$	
RR	$f(x) = -17.108x + 397.417$	

Cubic Fit		$f(x) = a_3x^3 + a_2x^2 + a_1x + a_0$
FL	$f(x) = 0.005x^3 + 0.358x^2 + -14.65x + -393.907$	
FR	$f(x) = 0.005x^3 + -0.358x^2 + -14.65x + 393.907$	
RL	$f(x) = 0.009x^3 + 0.667x^2 + -17.108x + -397.417$	
RR	$f(x) = 0.009x^3 + -0.667x^2 + -17.108x + 397.417$	

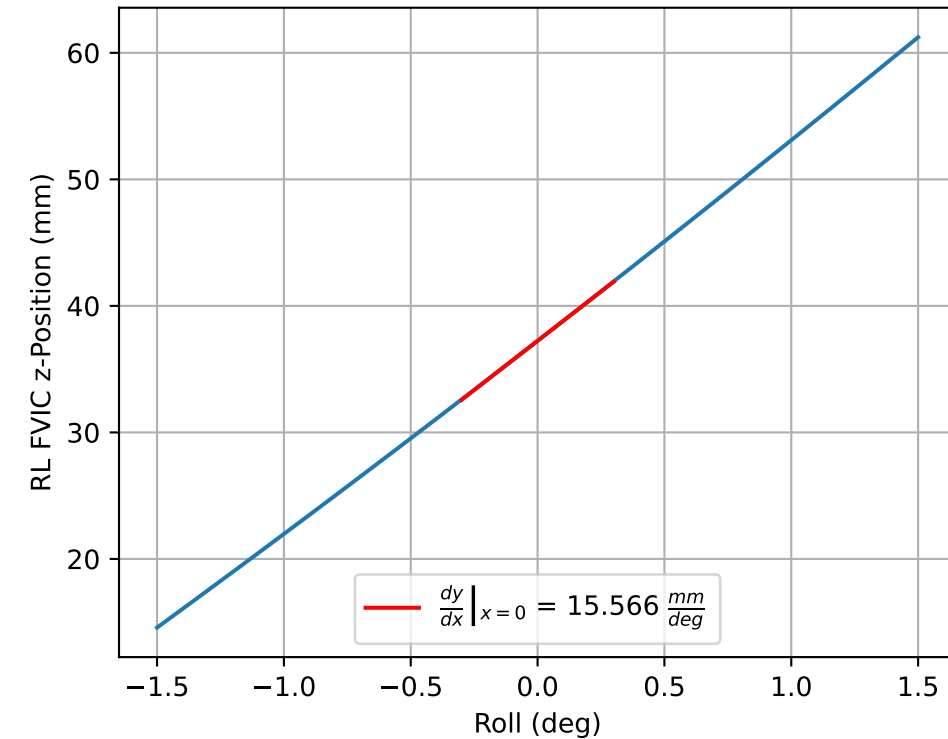
FL Roll FVIC z-Migration



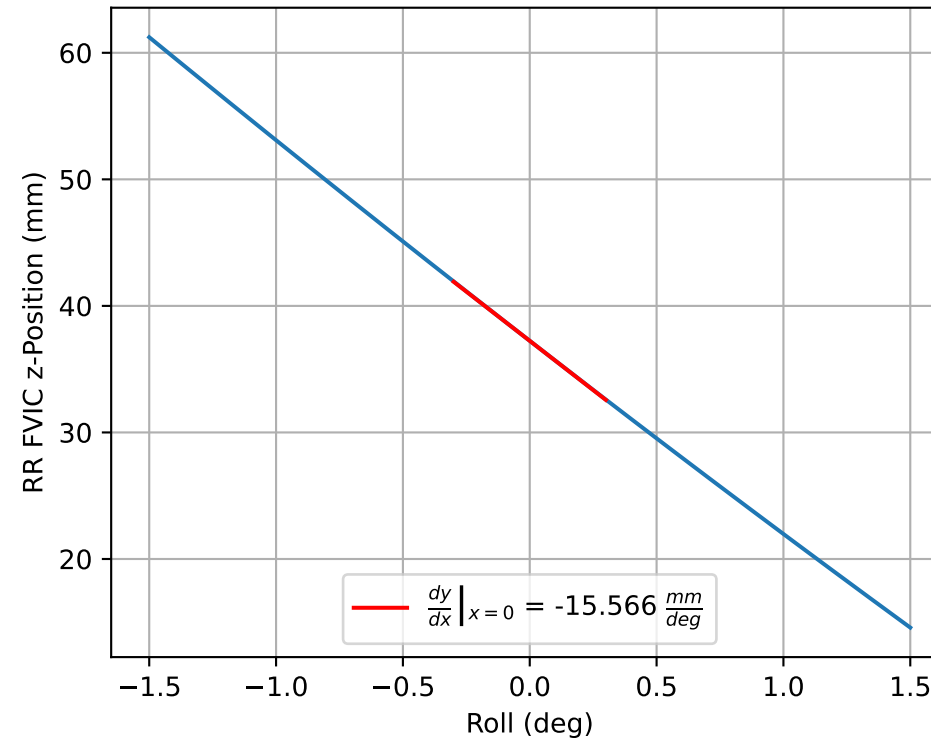
FR Roll FVIC z-Migration



RL Roll FVIC z-Migration



RR Roll FVIC z-Migration



— Nightwatch
- - - FMU

Linear Fit

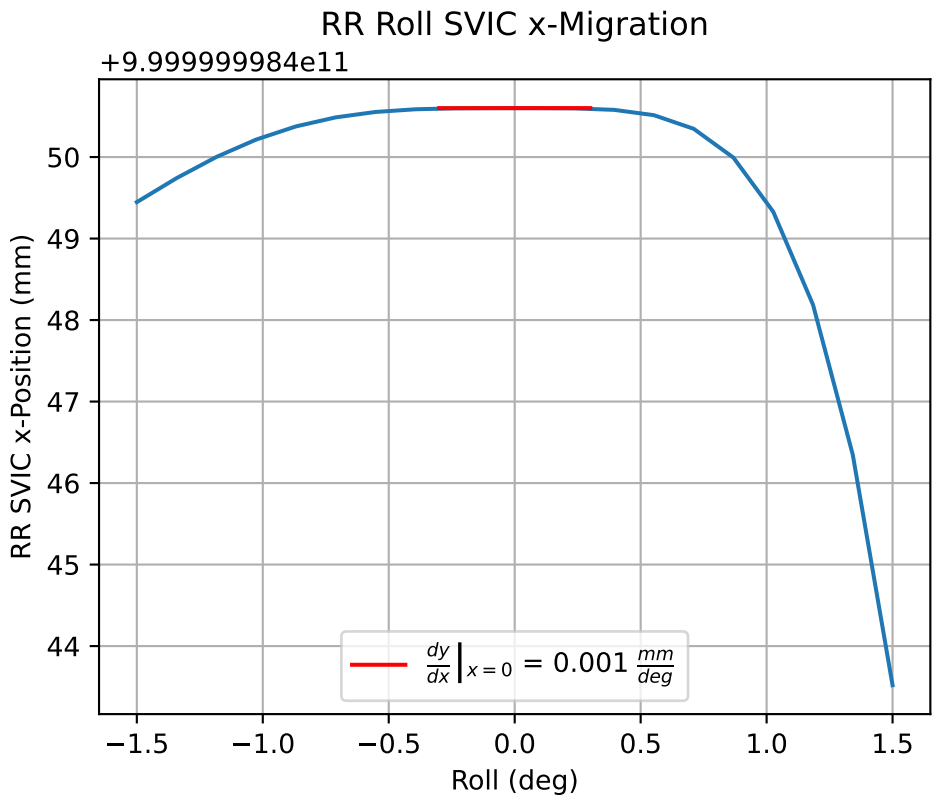
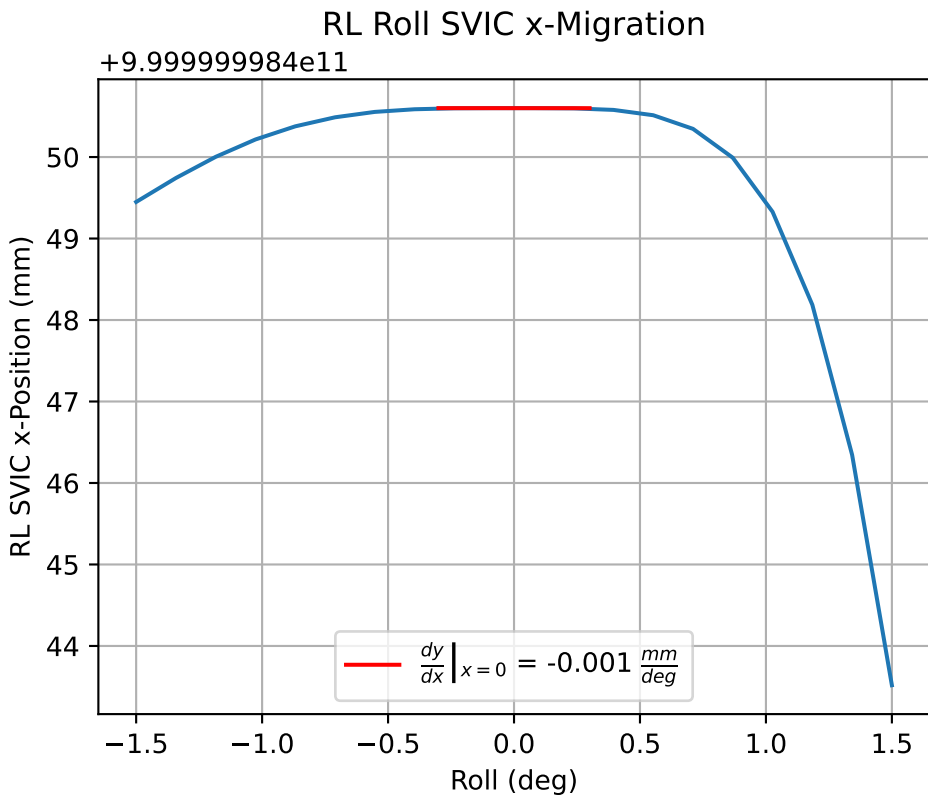
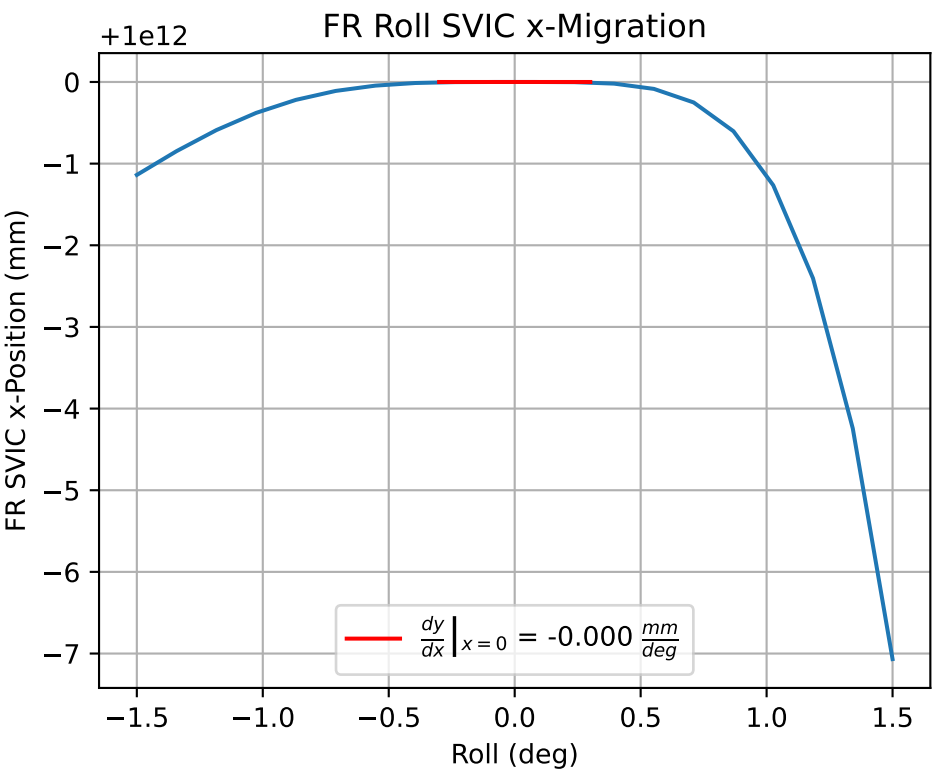
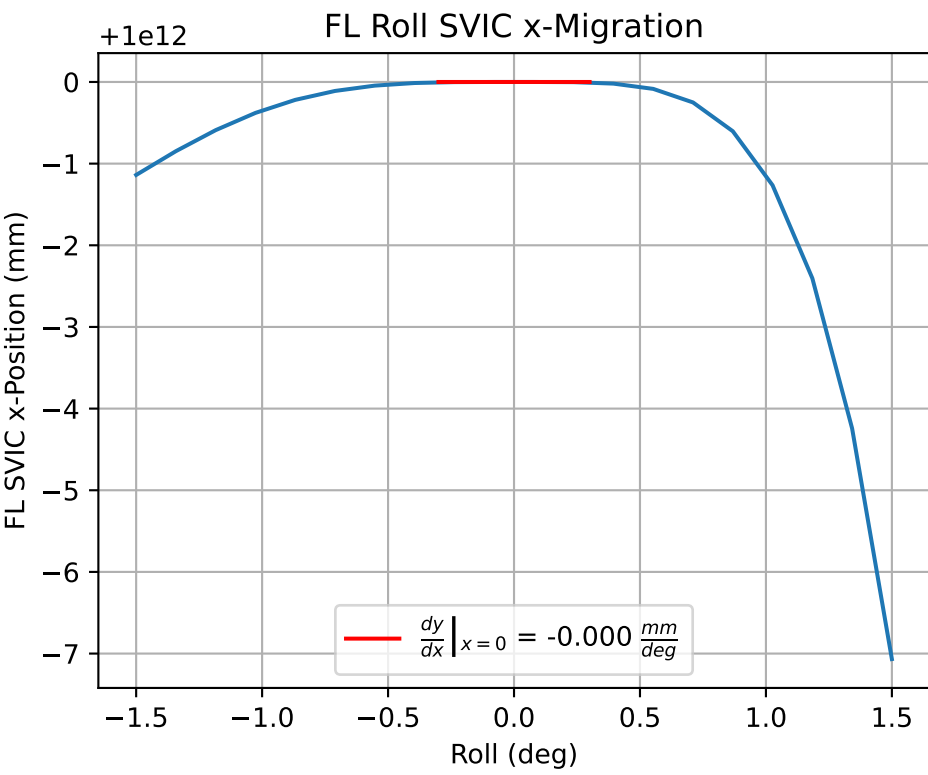
$$f(x) = a_1x + a_0$$

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

Cubic Fit

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

FL	$f(x) = -0.002x^3 + 0.178x^2 + 9.87x + 27.34$
FR	$f(x) = 0.002x^3 + 0.178x^2 - 9.87x + 27.34$
RL	$f(x) = -0.006x^3 + 0.296x^2 + 15.566x + 37.239$
RR	$f(x) = 0.007x^3 + 0.296x^2 - 15.566x + 37.239$



Nightwatch
FMU

Linear Fit

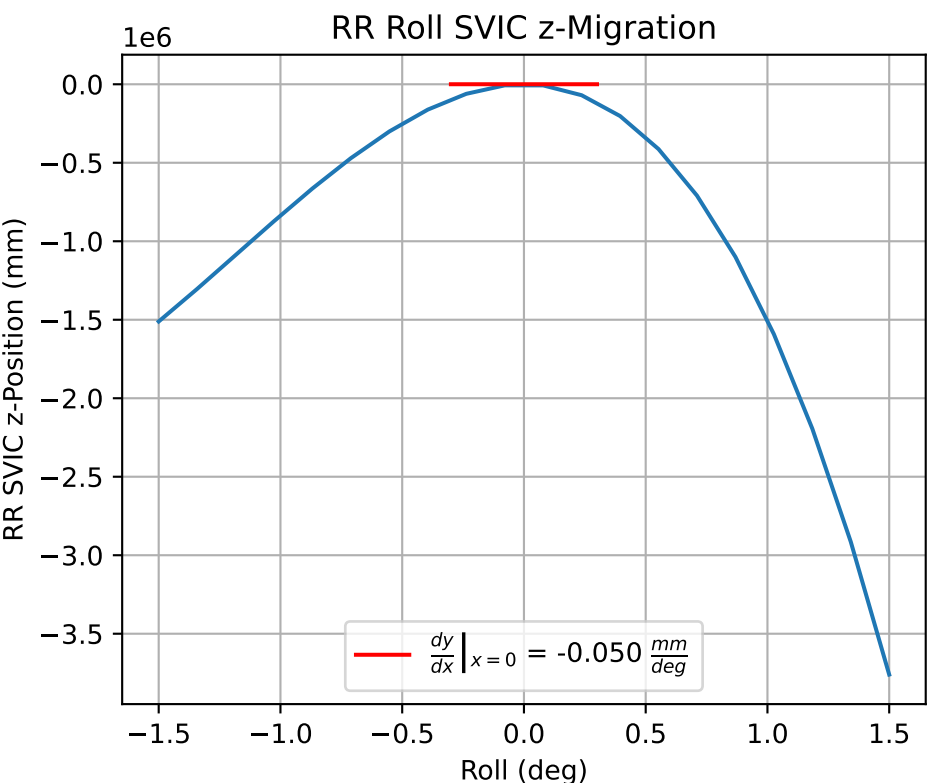
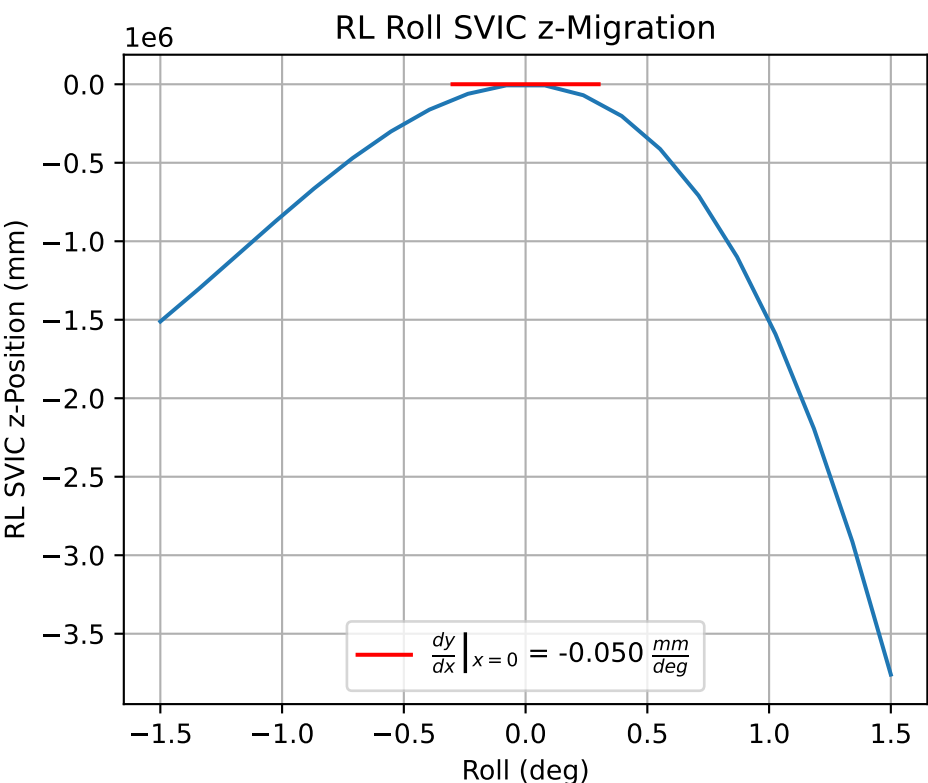
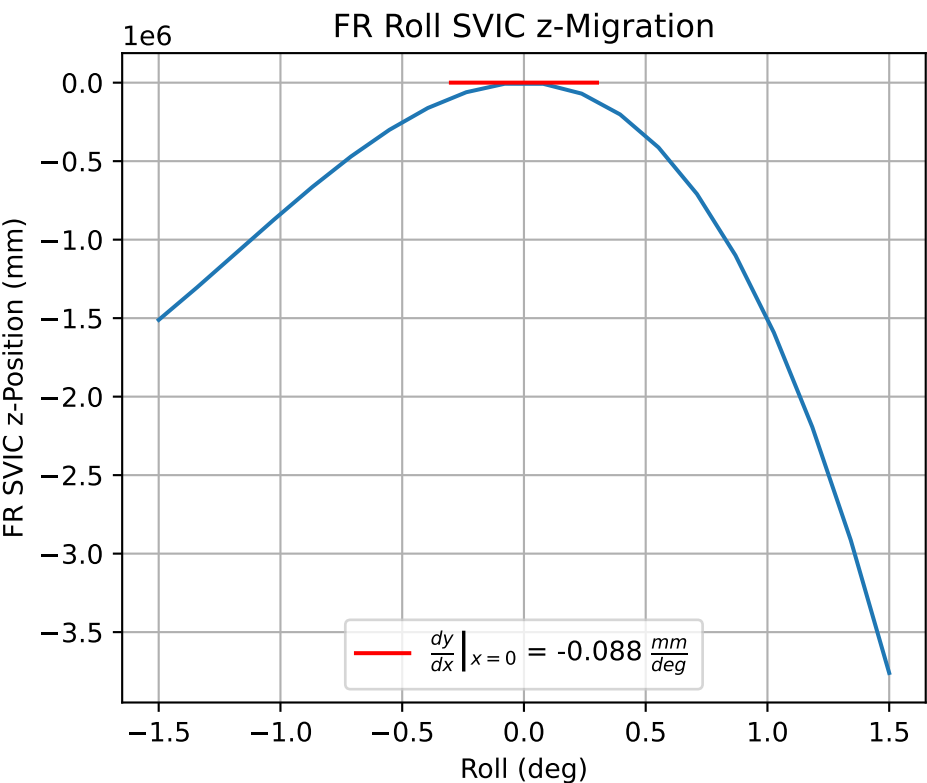
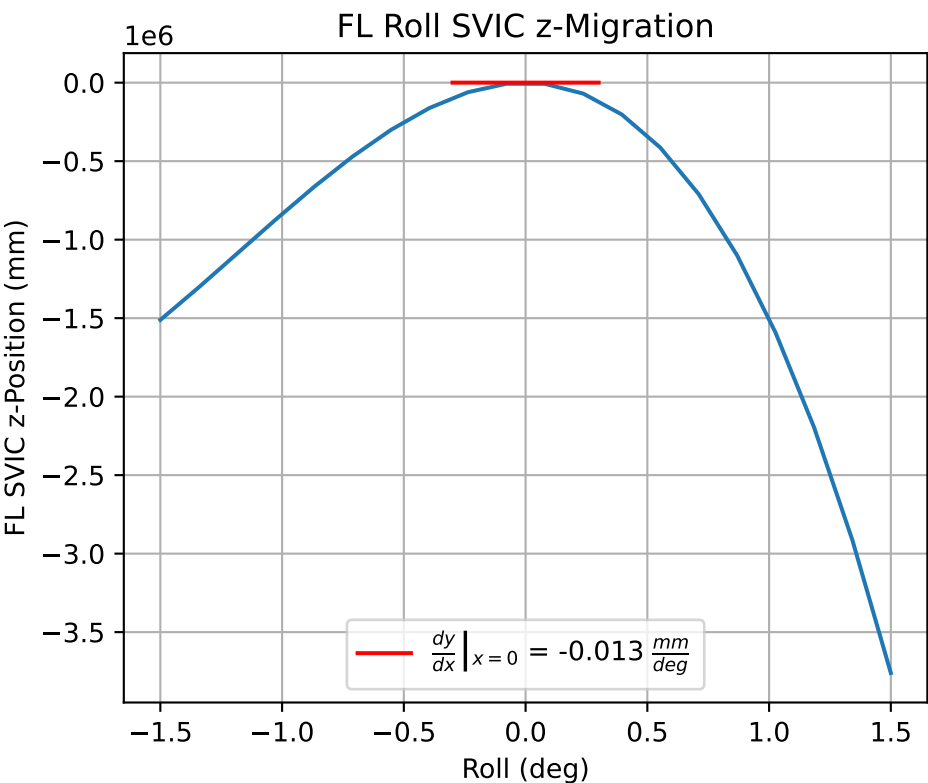
$f(x) = a_1x + a_0$

FL	$f(x) = -0.0x + 1.000e+12$
FR	$f(x) = -0.0x + 1.000e+12$
RL	$f(x) = -0.001x + 1.000e+12$
RR	$f(x) = 0.001x + 1.000e+12$

Cubic Fit

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

FL	$f(x) = -1.062x^3 + -1.688x^2 + 0.555x + 1.0e+12$
FR	$f(x) = -1.062x^3 + -1.688x^2 + 0.555x + 1.0e+12$
RL	$f(x) = -1.062x^3 + -1.694x^2 + 0.555x + 1.0e+12$
RR	$f(x) = -1.062x^3 + -1.694x^2 + 0.556x + 1.0e+12$



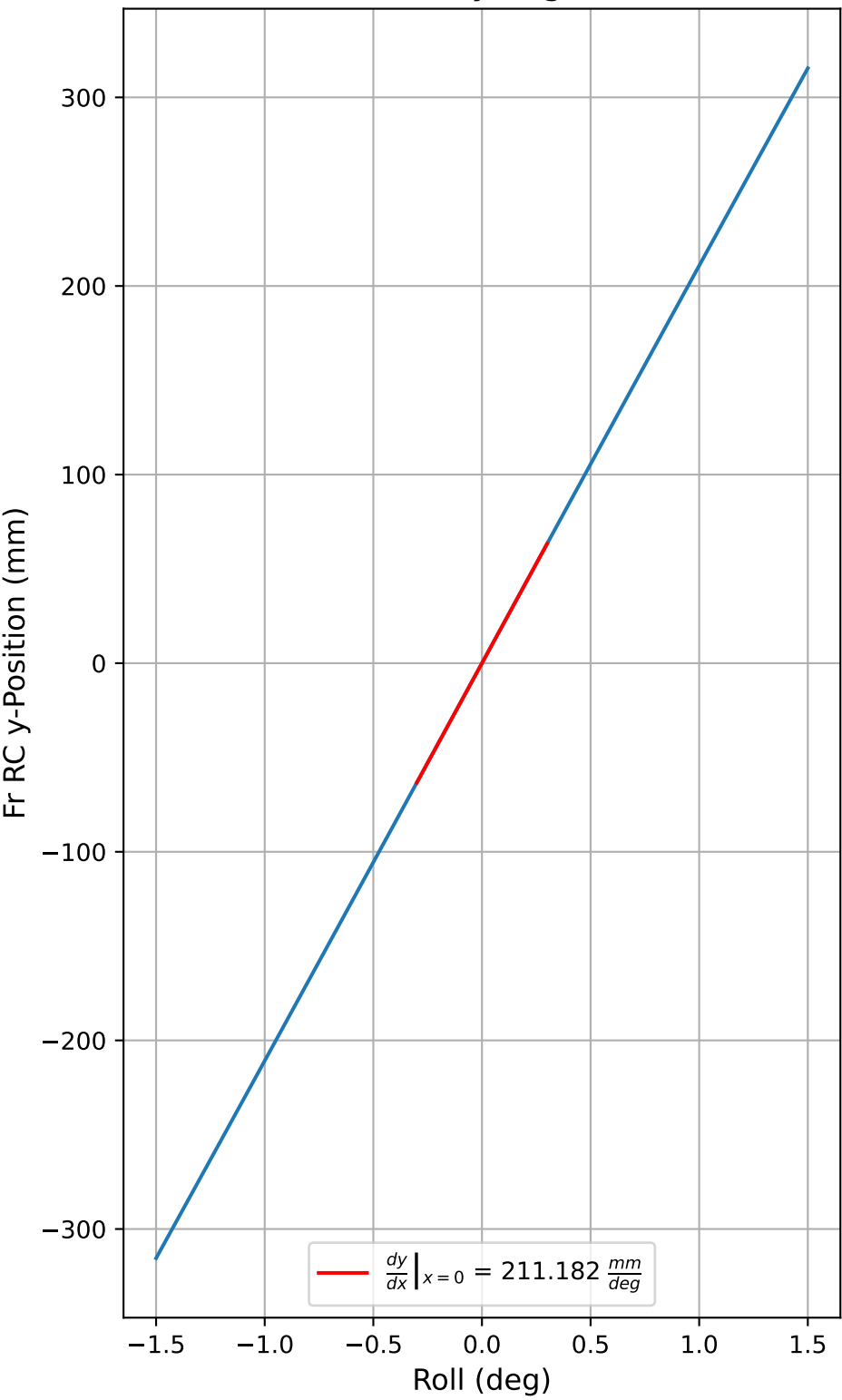
Linear Fit $f(x) = a_1x + a_0$

FL	$f(x) = -0.013x + 203.231$
FR	$f(x) = -0.088x + 203.231$
RL	$f(x) = -0.05x + 203.262$
RR	$f(x) = -0.05x + 203.262$

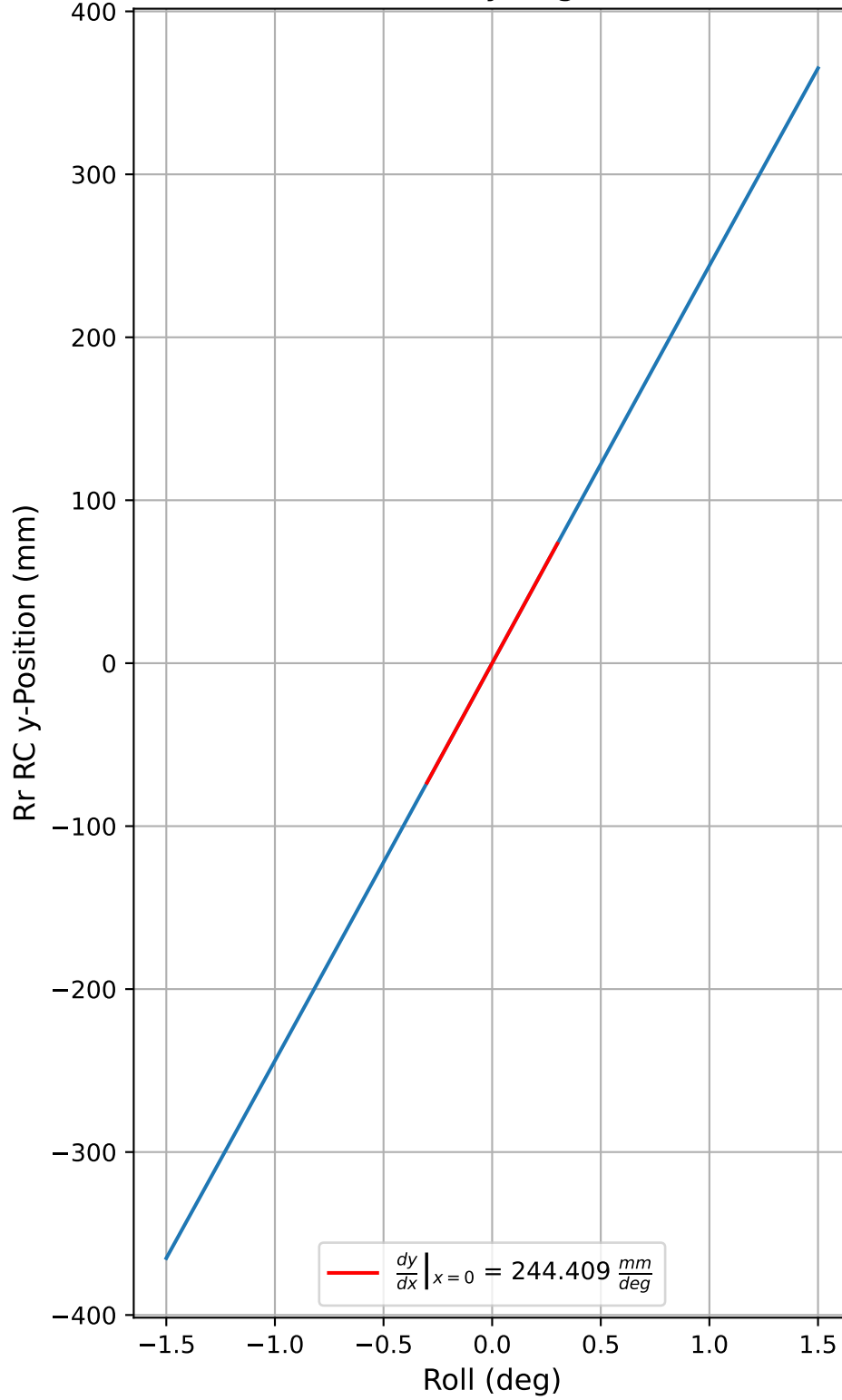
Cubic Fit $f(x) = a_3x^3 + a_2x^2 + a_1x + a_0$

$f(x) = -333350.204x^3 - 1171318.784x^2 + 473.537x + 1.0$
$f(x) = -333350.204x^3 - 1171318.784x^2 + 473.462x + 1.0$
$f(x) = -333350.204x^3 - 1171318.784x^2 + 473.499x + 1.0$
$f(x) = -333350.203x^3 - 1171318.784x^2 + 473.499x + 1.0$

Fr Roll RC y-Migration



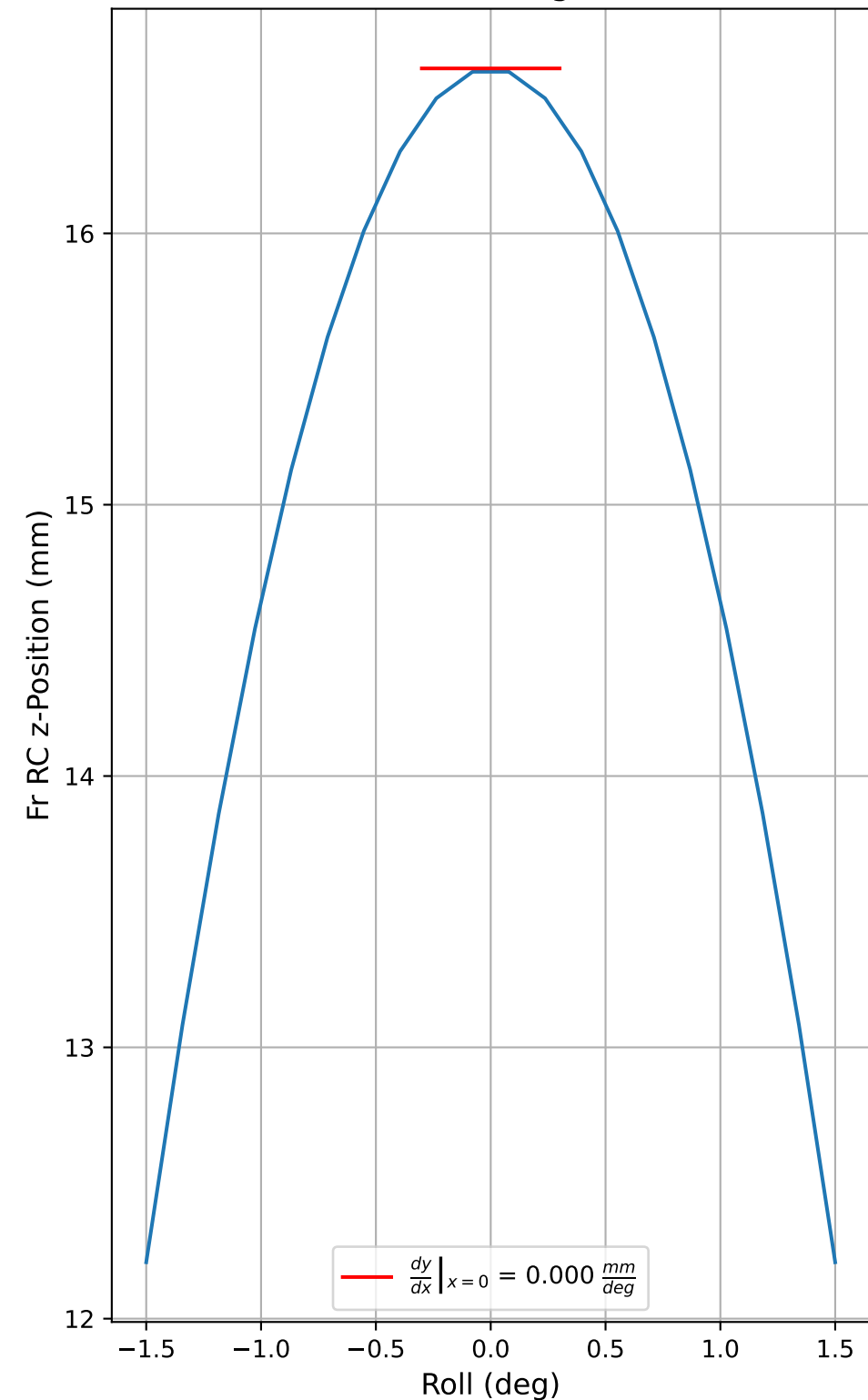
Rr Roll RC y-Migration



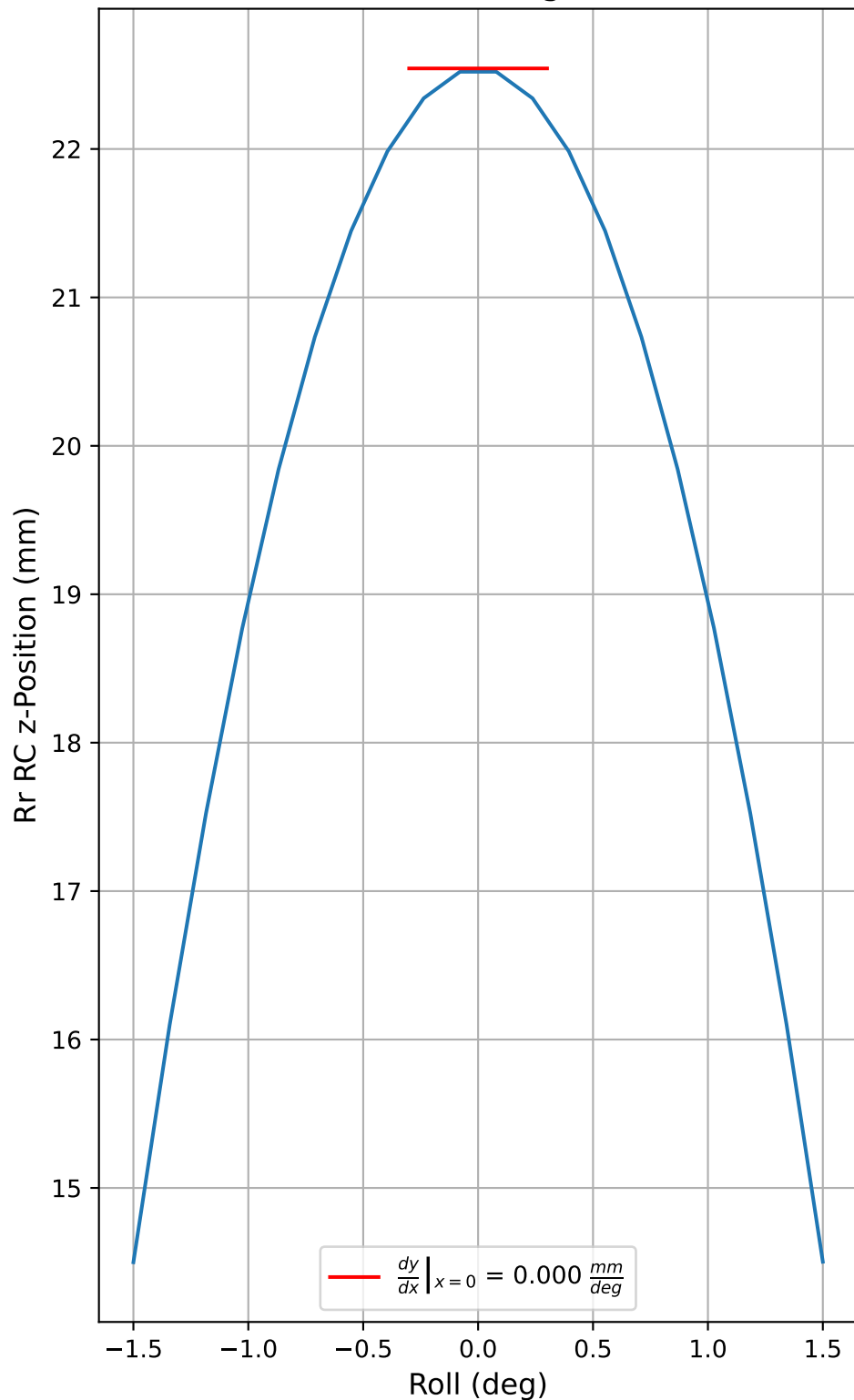
Linear Fit		$f(x) = a_1x + a_0$
Fr		$f(x) = 211.182x + -0.0$
Rr		$f(x) = 244.409x + 0.0$

Cubic Fit		$f(x) = a_3x^3 + a_2x^2 + a_1x + a_0$
Fr		$f(x) = -0.387x^3 + -0.0x^2 + 211.182x + 0.0$
Rr		$f(x) = -0.442x^3 + -0.0x^2 + 244.409x + 0.0$

Fr Roll RC z-Migration



Rr Roll RC z-Migration



Nightwatch
FMU

Linear Fit

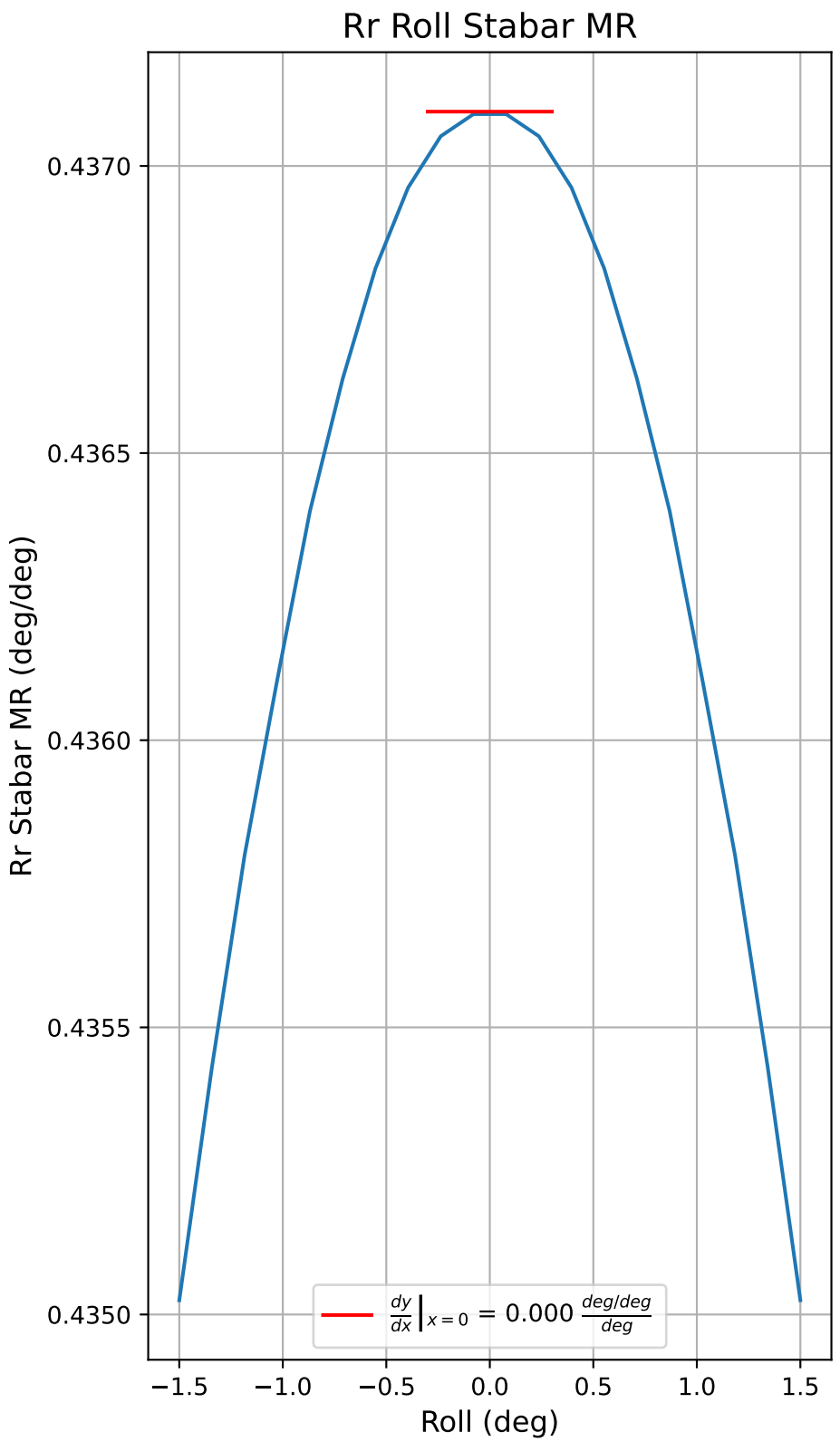
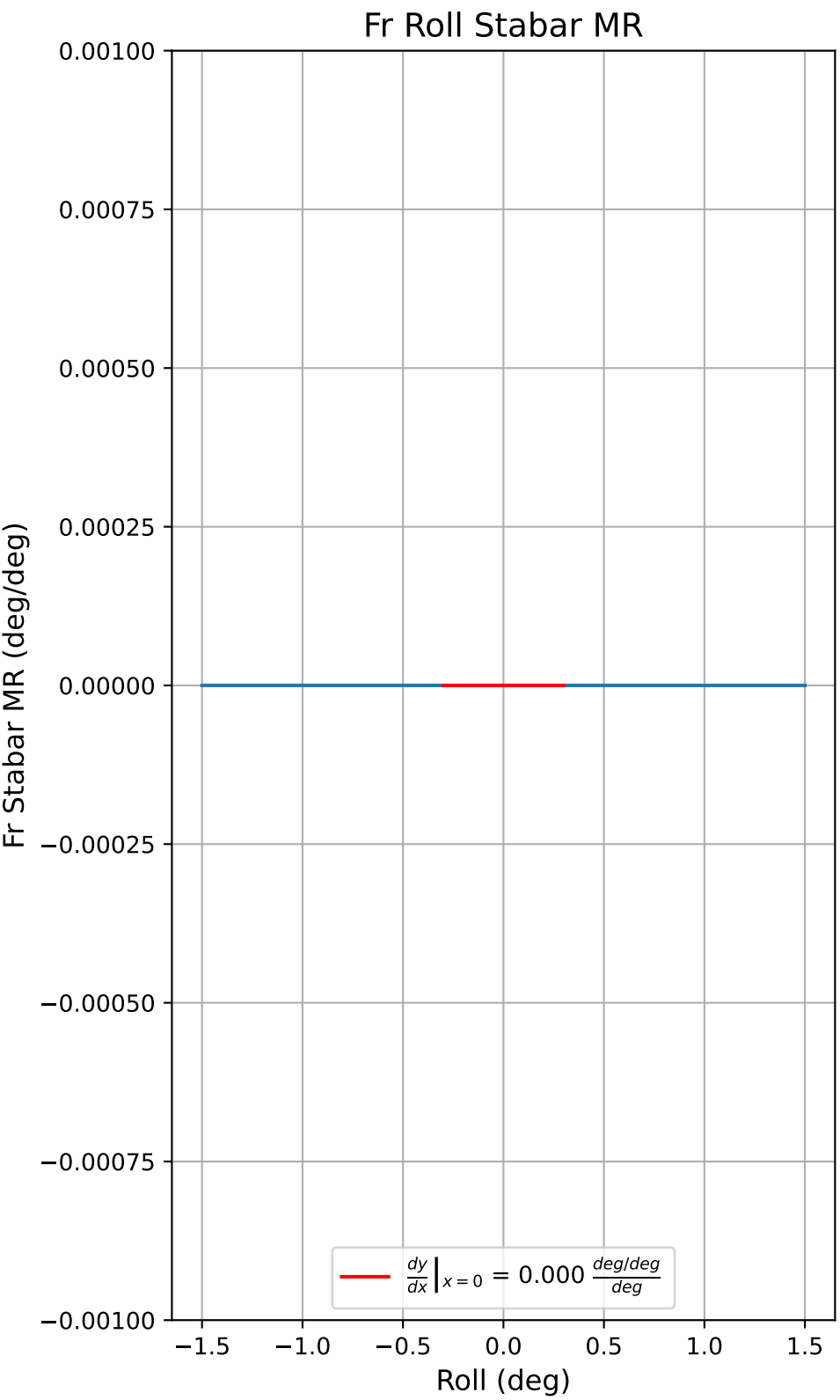
$f(x) = a_1x + a_0$

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	$f(x) = 0.0x^3 + -1.956x^2 + -0.0x + 16.606$
Rr	$f(x) = 0.001x^3 + -3.575x^2 + -0.0x + 22.54$



Nightwatch

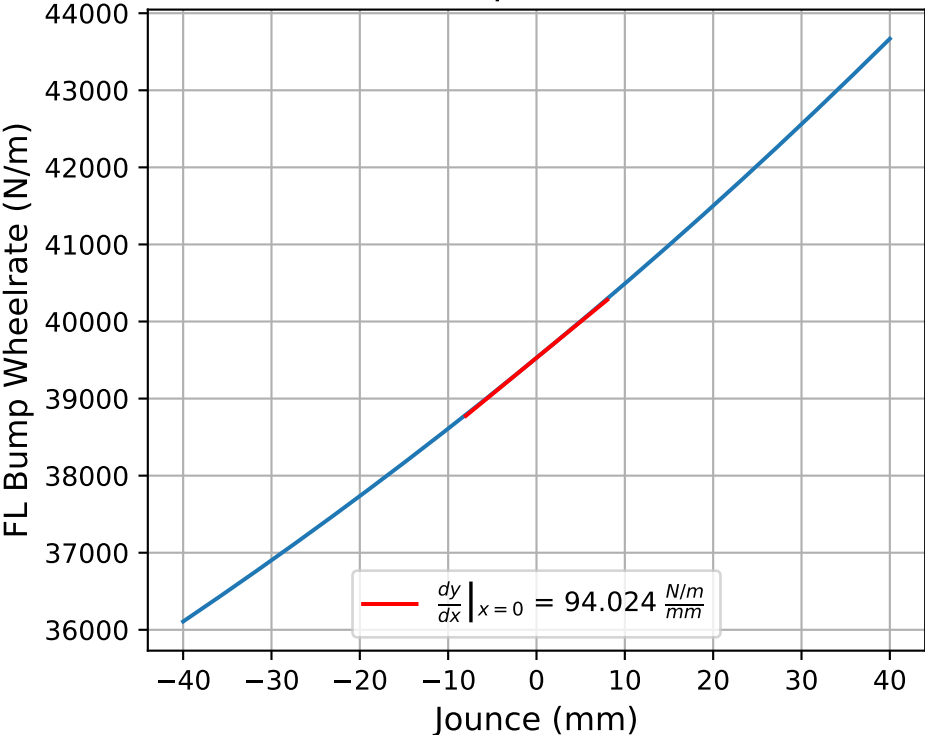
FMU

Linear Fit		$f(x) = a_1x + a_0$
Fr	$f(x) = 0.0x + 0.0$	
Rr	$f(x) = 0.0x + 0.437$	

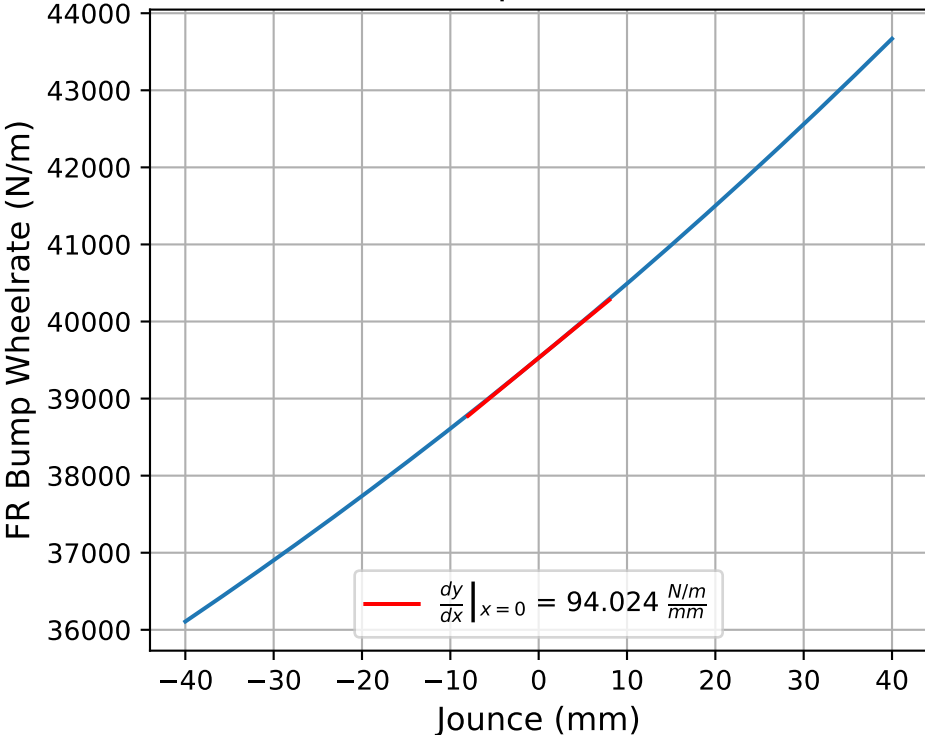
Cubic Fit		$f(x) = a_3x^3 + a_2x^2 + a_1x + a_0$
Fr	$f(x) = 0.0x^3 + 0.0x^2 + 0.0x + 0.0$	
Rr	$f(x) = 0.0x^3 + -0.001x^2 + -0.0x + 0.437$	



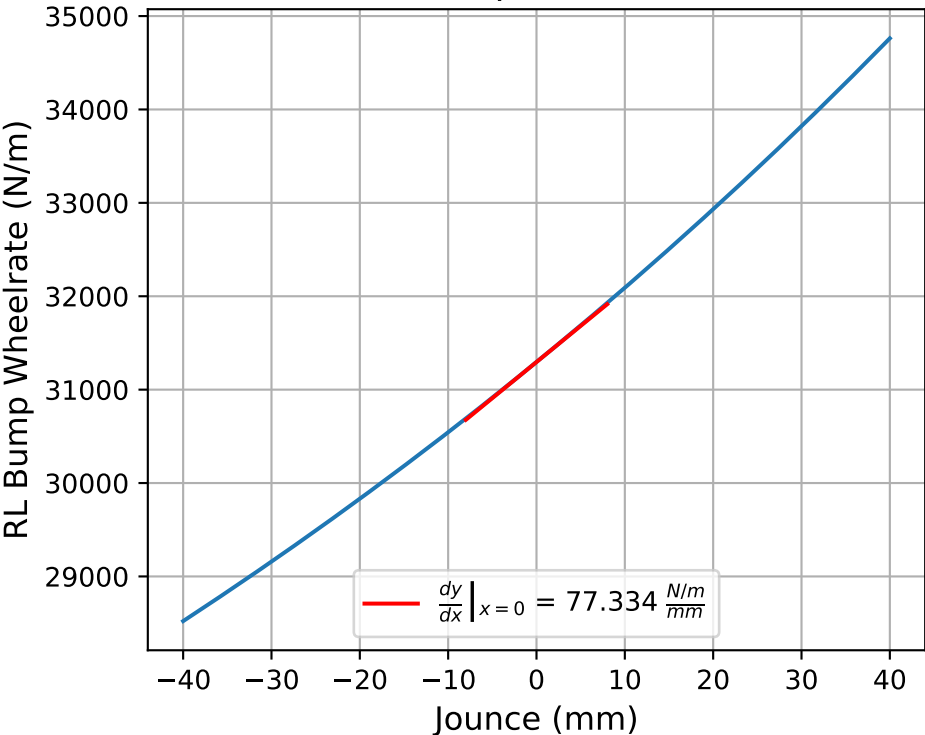
FL Bump Wheelrate



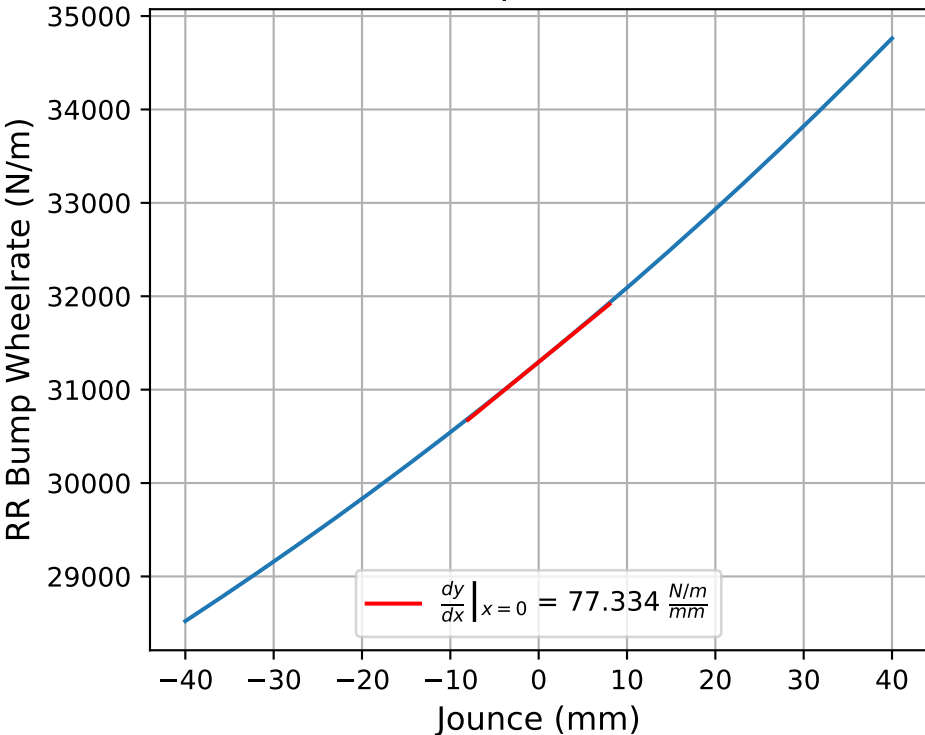
FR Bump Wheelrate



RL Bump Wheelrate



RR Bump Wheelrate



Linear Fit

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

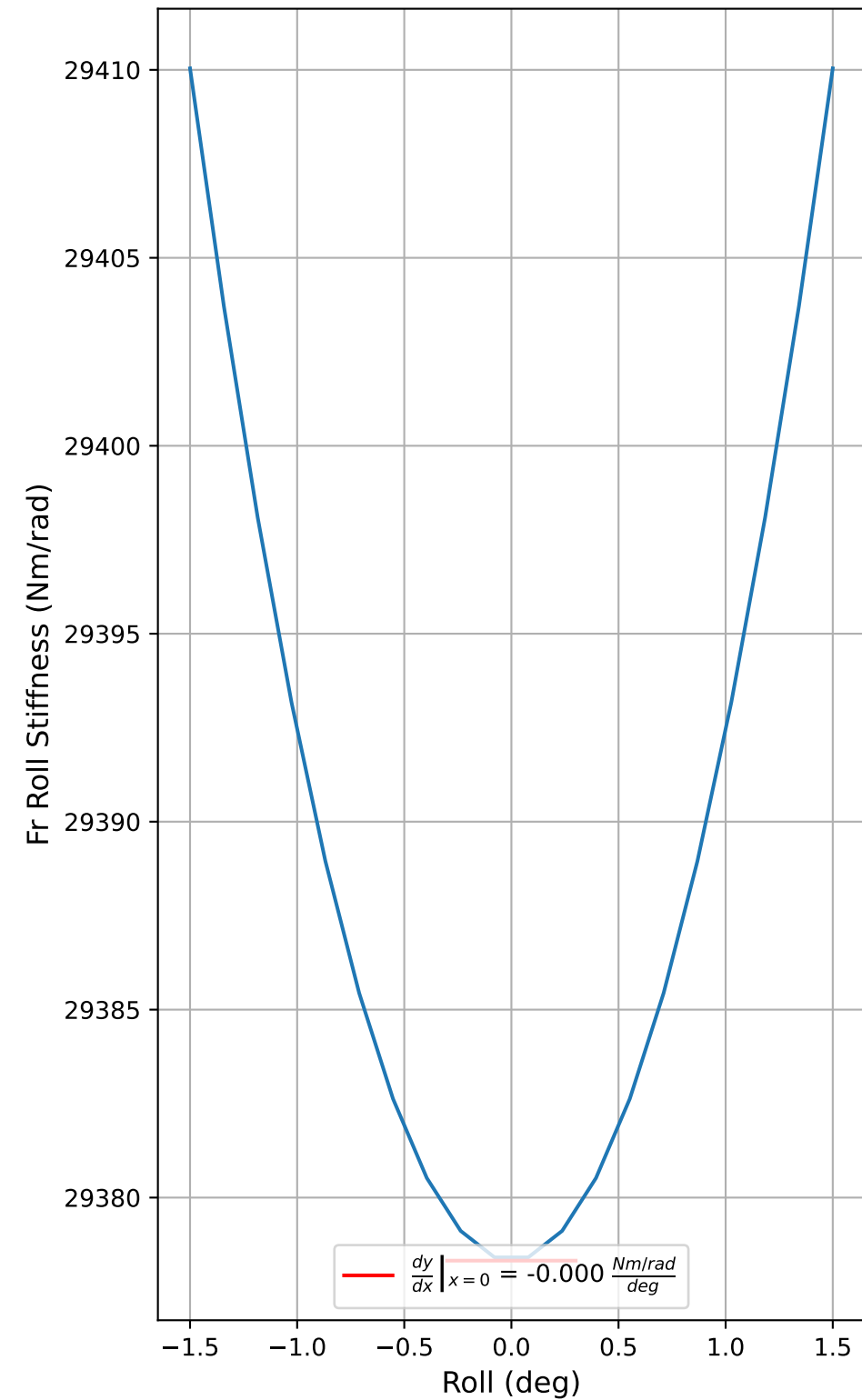
FL	$f(x) = 94.024x + 3.953e+04$
FR	$f(x) = 94.024x + 3.953e+04$
RL	$f(x) = 77.334x + 3.130e+04$
RR	$f(x) = 77.334x + 3.130e+04$

Cubic Fit

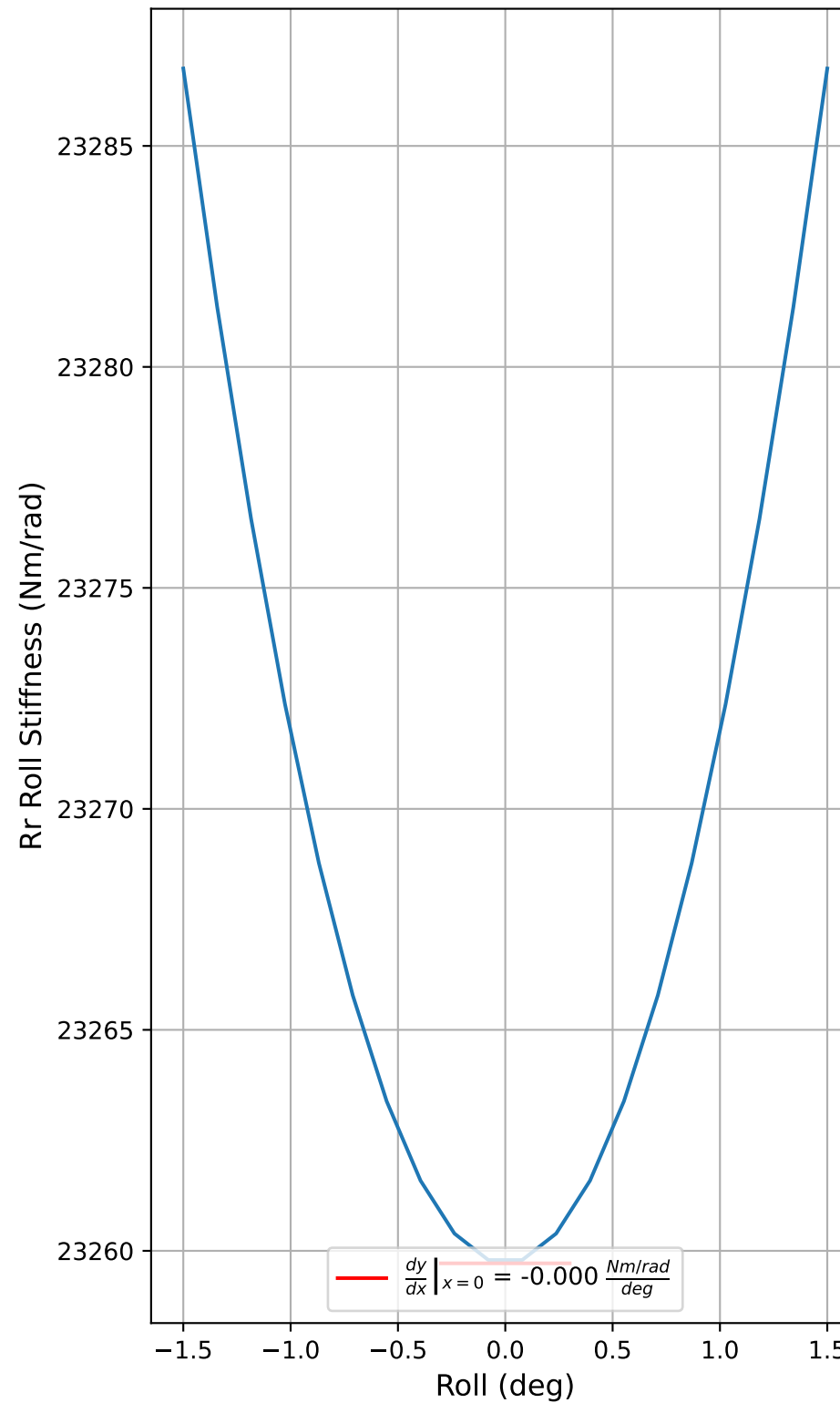
$$f(x) = a_3x^3 + a_2x^2 + a_1x + a_0$$

FL	$f(x) = 0.0x^3 + 0.225x^2 + 94.027x + 4.0e+04$
FR	$f(x) = 0.0x^3 + 0.225x^2 + 94.027x + 4.0e+04$
RL	$f(x) = 0.0x^3 + 0.216x^2 + 77.334x + 3.1e+04$
RR	$f(x) = 0.0x^3 + 0.216x^2 + 77.334x + 3.1e+04$

Fr Roll Stiffness



Rr Roll Stiffness



— Nightwatch
- - - FMU

Linear Fit

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

Fr	$f(x) = -0.0x + 29378.323$
Rr	$f(x) = -0.0x + 23259.717$

Cubic Fit

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

Fr	$f(x) = -0.0x^3 + 14.096x^2 + 0.0x + 29378.323$
Rr	$f(x) = 0.0x^3 + 12.015x^2 + -0.0x + 23259.715$