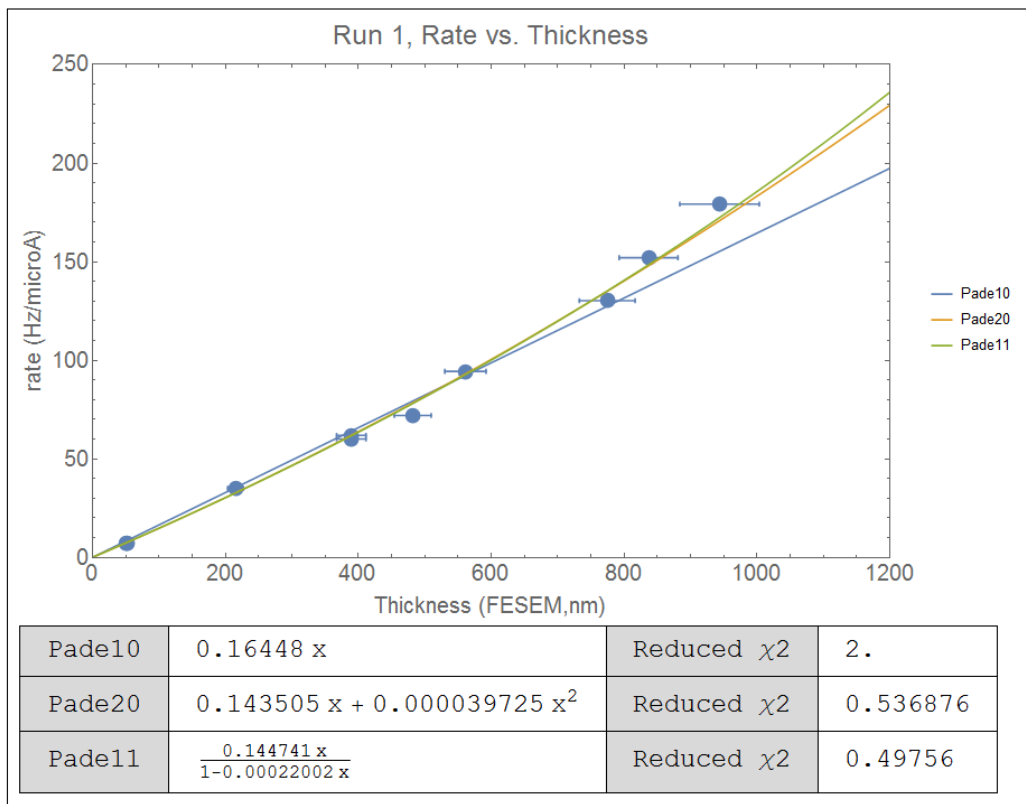


# Rate vs. Thickness

Jan 18, 2017

# Mathematica run 1 RvT



```
In[451]:= PlotPade10[{"ParameterTable"}]
```

	Estimate	Standard Error	t-Statistic	P-Value
a1	0.16448	0.00442695	37.1541	$3.67502 \times 10^{-11}$

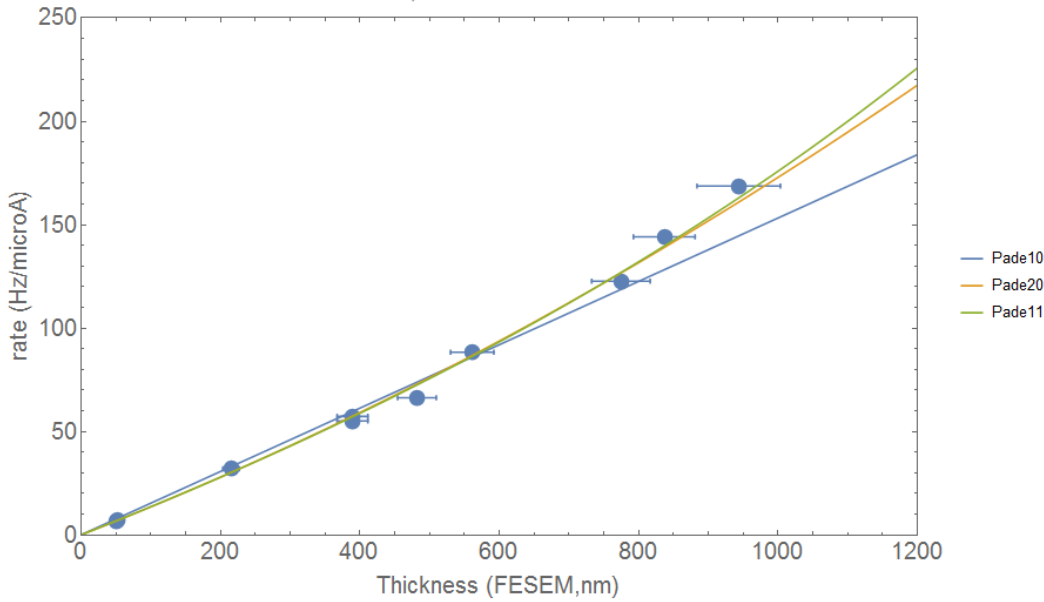
```
In[452]:= PlotPade20[{"ParameterTable"}]
```

	Estimate	Standard Error	t-Statistic	P-Value
a1	0.143505	0.0051216	28.0195	$2.84241 \times 10^{-9}$
a2	0.000039725	$9.56285 \times 10^{-6}$	4.1541	0.00319095

```
In[453]:= PlotPade11[{"ParameterTable"}]
```

	Estimate	Standard Error	t-Statistic	P-Value
a1	0.144741	0.00431972	33.507	$6.87112 \times 10^{-10}$
b1	-0.00022002	0.0000448052	-4.91059	0.00117791

Run 2, Rate vs. Thickness



Pade10	$0.153224 x$	Reduced $\chi^2$	2.49758
Pade20	$0.131195 x + 0.0000416852 x^2$	Reduced $\chi^2$	0.560865
Pade11	$\frac{0.132522 x}{1 - 0.000246464 x}$	Reduced $\chi^2$	0.496491

In[499]= PlotPade10[{"ParameterTable"}]

	Estimate	Standard Error	t-Statistic	P-Value
a1	0.153224	0.00460866	33.2469	$9.92428 \times 10^{-11}$

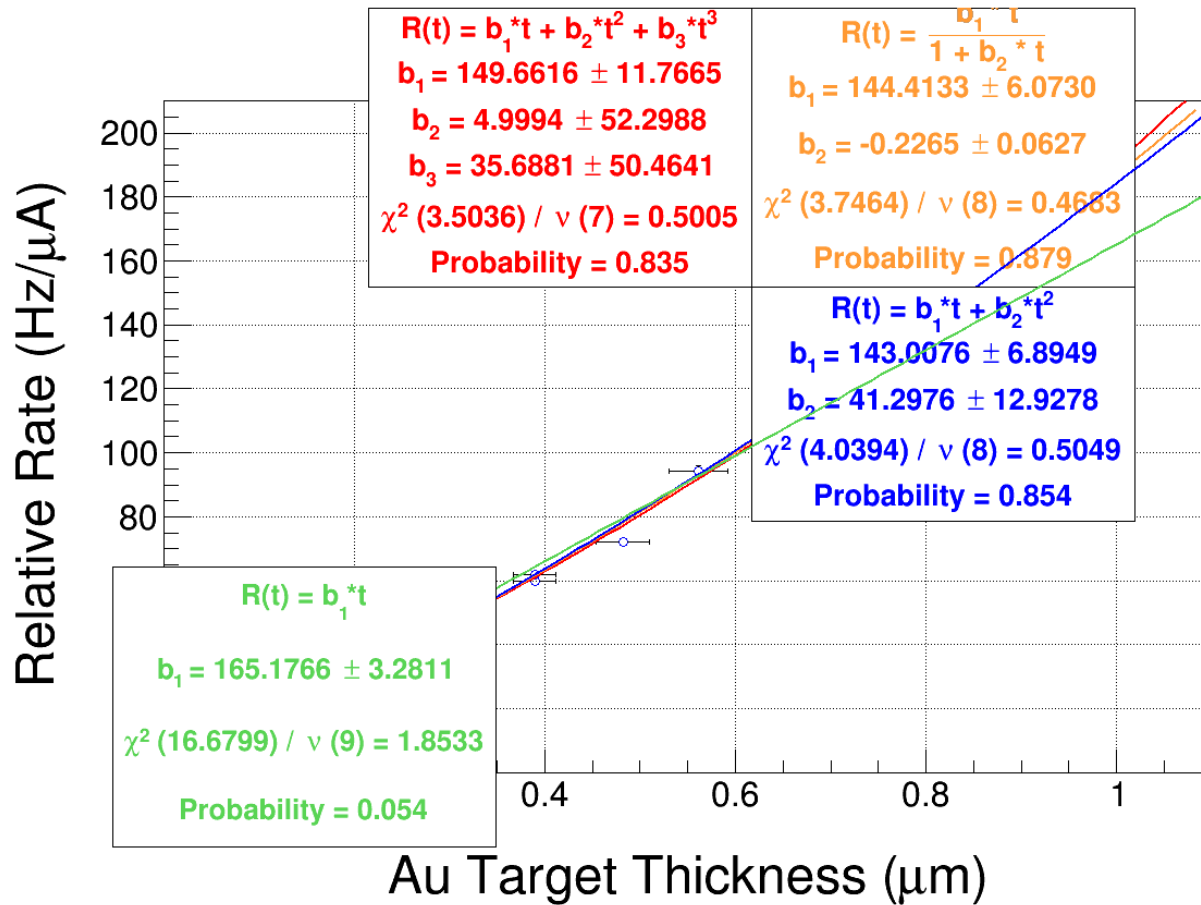
In[500]= PlotPade20[{"ParameterTable"}]

	Estimate	Standard Error	t-Statistic	P-Value
a1	0.131195	0.00486848	26.9478	$3.8717 \times 10^{-9}$
a2	0.0000416852	$9.19831 \times 10^{-6}$	4.53183	0.00191973

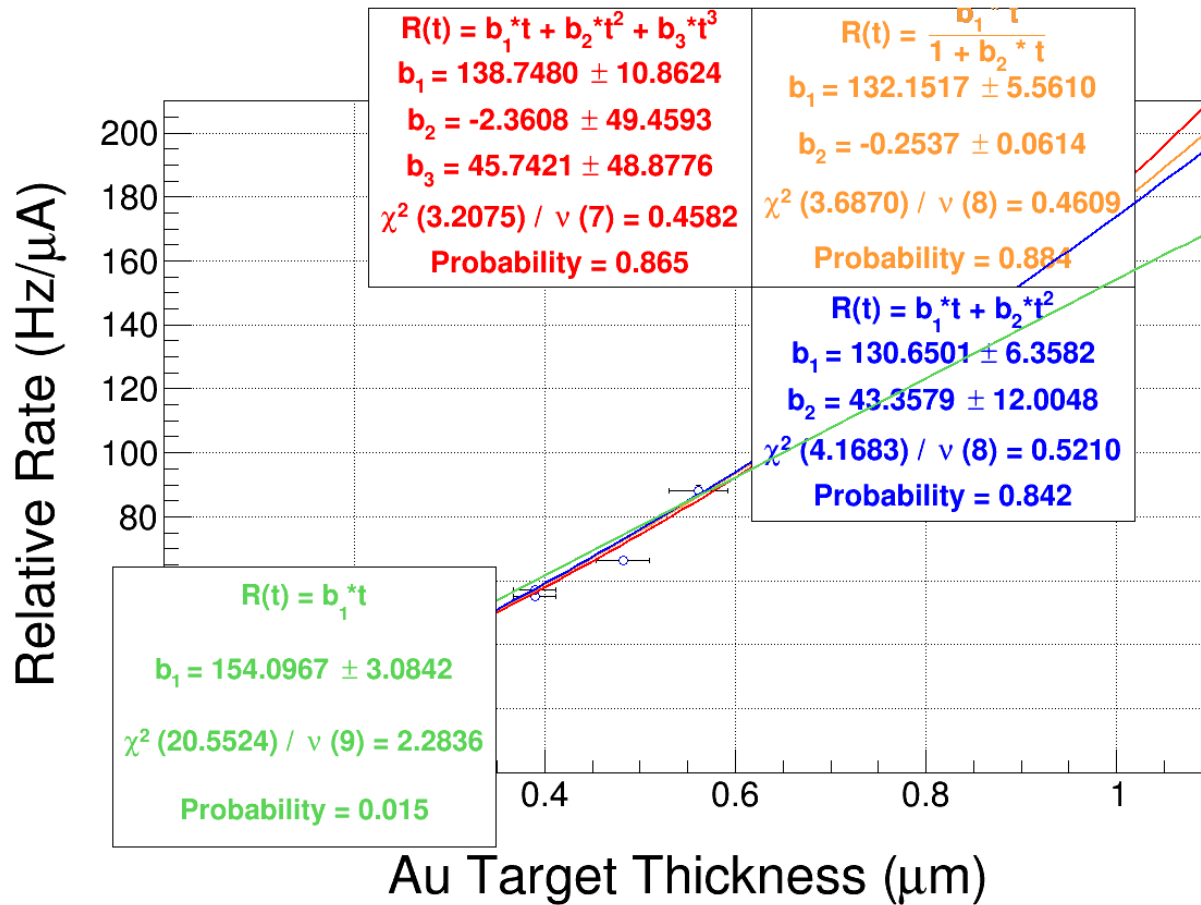
In[501]= PlotPade11[{"ParameterTable"}]

	Estimate	Standard Error	t-Statistic	P-Value
a1	0.132522	0.00395094	33.5417	$6.81482 \times 10^{-10}$
b1	-0.000246464	0.0000440822	-5.59101	0.000515623

# R vs. T run 1



# RvsT run 2

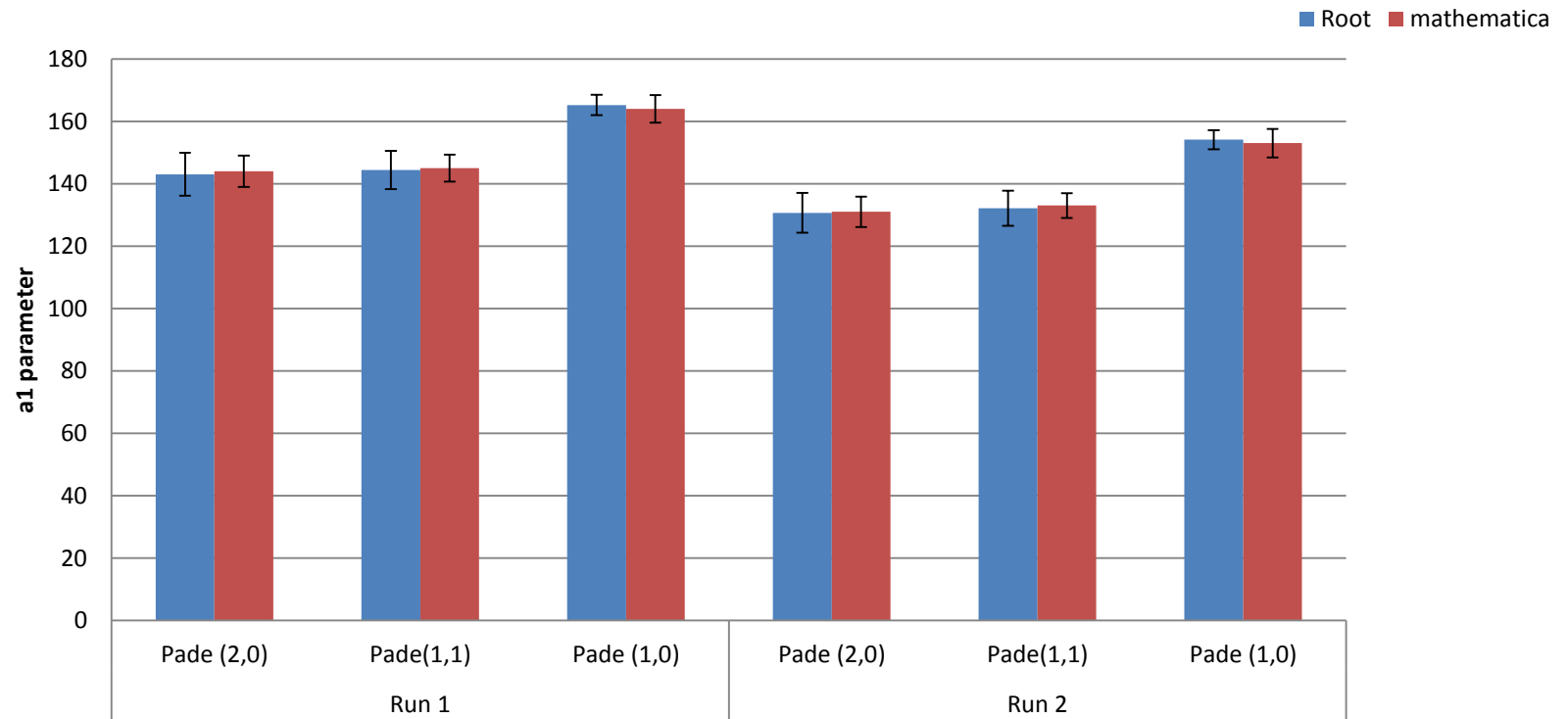


# Root vs. Mathematica

R vs. T	a1	$\Delta a1$	a2	b1	Chi sq	
Pade (2,0)	143.01	6.9	41.3		0.505	Root
Pade(1,1)	144.41	6.1		-0.23	0.47	Root
<del>Pade(1,0)</del>	<del>165.2</del>	<del>3.28</del>			<del>1.85</del>	<del>Root</del>
Pade (2,0)	130.65	6.4	43.36		0.842	Rt run2
Pade(1,1)	132.15	5.6		-0.26	0.88	Rt run2
<del>Pade(1,0)</del>	<del>154.1</del>	<del>3.08</del>			<del>2.3</del>	<del>Rt run2</del>

R vs. T	a1	$\Delta a1$	a2	b1	Chi sq	
Pade (2,0)	.144	0.005	3.97e-5		0.54	MM run 1
Pade(1,1)	0.145	0.0043		-0.00022	0.498	MM run 1
<del>Pade(1,0)</del>	<del>0.164</del>	<del>0.0044</del>			<del>2</del>	<del>MM run 1</del>
Pade (2,0)	0.131	0.0049	4.2e-5		0.56	MM run 2
Pade(1,1)	0.133	0.00395		-2.4e-4	0.496	MM run 2
<del>Pade(1,0)</del>	<del>0.153</del>	<del>0.0046</del>			<del>2.49</del>	<del>MM run 2</del>

## Root vs. MM, R vs. T



## Root vs. MM, chi sq, A vs. R

