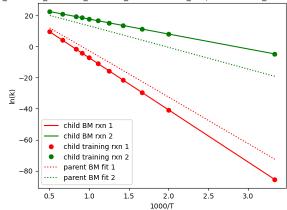
plt.legend()
plt.show()

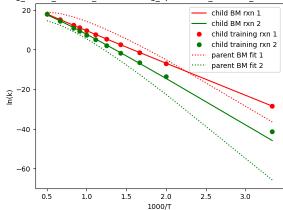
yeah

yeah 8.11e+10 s^-1 8.11e+10 s^-1

 $Root_1R-inRing_2R->C_Ext-3R-R_Ext-1R-R_Ext-3R-R_Int-5R!H-4R!H_N-5p-5R!H=4R!H_Ext-2C-R_Ext-6R!H-R_Sp-7R!H-6R!H_N-Sp-5R!H=4R!H_Ext-2C-R_Ext-6R!H-R_Sp-7R!H-6R!H_N-Sp-5R!H=4R!H_Ext-2C-R_Ext-6R!H-R_Sp-7R!H-6R!H_N-Sp-5R!H=4R!H_Ext-2C-R_Ext-6R!H-R_Sp-7R!H-6R!H_N-Sp-5R!H=4R!H_Ext-2C-R_Ext-6R!H-R_Sp-7R!H-6R!H_N-Sp-5R!H=4R!H_Ext-2C-R_Ext-6R!H-R_Sp-7R!H-6R!H_N-Sp-5R!H=4R!H_N-Sp-5R!H-6R!H_N-Sp-5R!H$



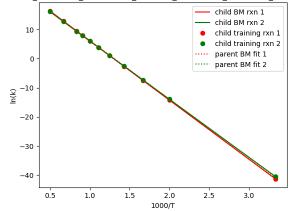
yeah 5.81e+08 s^-1 5.81e+08 s^-1



yeah

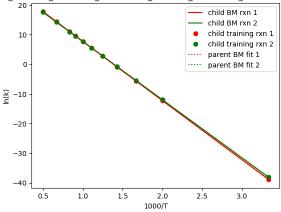
yeah 7.6e+10 s^-1 7.6e+10 s^-1

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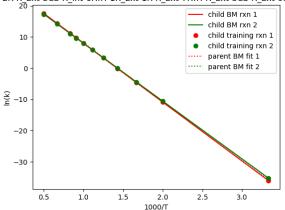
yeah

yeah 2.68e+11 s^-1 2.68e+11 s^-1



yeah yeah 1.2e+11 s^-1 1.2e+11 s^-1

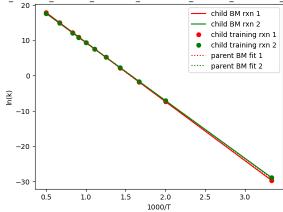
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yeah

yeah 5.77e+10 s^-1 5.77e+10 s^-1

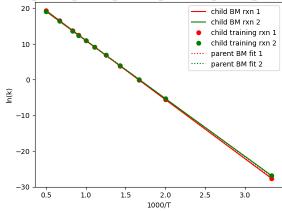
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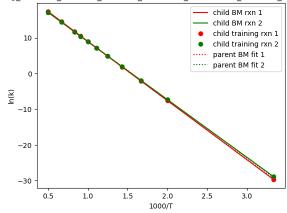
yeah

yeah 2.3e+11 s^-1 2.3e+11 s^-1

 $Root_N-1R-inRing_N-3R->O_Ext-2R-R_Ext-2R-R_Ext-3CS-R_int-6R!H-1R_Ext-1R-R_Ext-7R!H-R_Ext-3CS-R_Ext-4R!H-R_Ext-3CS-R_Ex$

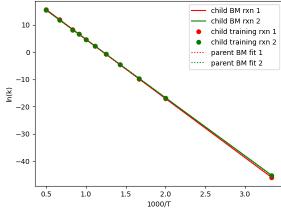


yeah yeah 3.17e+10 s^-1 3.17e+10 s^-1



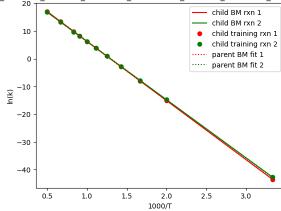
yeah yeah 7.27e+10 s^-1 7.27e+10 s^-1

 $Root_N-1R-inRing_N-3R->0_Ext-2R-R_Ext-3CS-R_Int-6R!H-1R_Ext-1R-R_Ext-3CS-R_Ext-8R!H-R_Sp-9R!H=8R!H_Ext-3CS-R_Ext-4R!H-R_Ext-3CS-R_Ext-4R!H-R_Ext-3CS-$



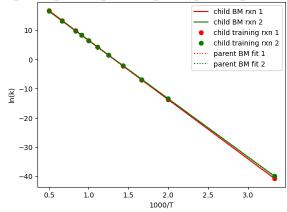
yeah yeah 2.57e+11 s^-1 2.57e+11 s^-1

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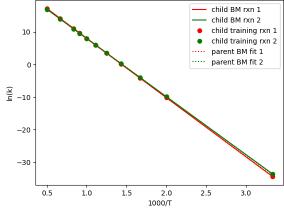
yeah yeah 1.15e+11 s^-1 1.15e+11 s^-1

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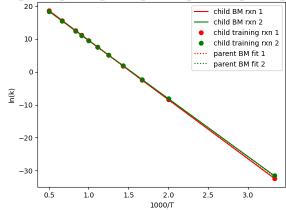


yeah yeah 5.52e+10 s^-1 5.52e+10 s^-1

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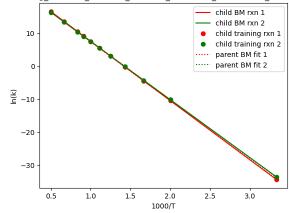


yeah yeah 2.2e+11 s^-1 2.2e+11 s^-1



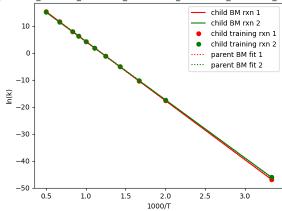
yeah yeah 3.03e+10 s^-1 3.03e+10 s^-1

 $Root_N-1R-inRing_N-3R->0_Ext-2R-R_Ext-2R-R_Ext-3CS-R_Int-6R!H-1R_Ext-1R-R_Ext-4R!H-R$

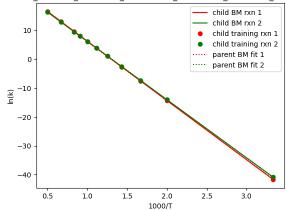


yeah yeah 5.82e+10 s^-1 5.82e+10 s^-1

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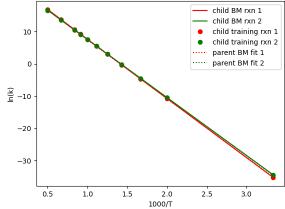
yeah yeah 9.21e+10 s^-1 9.21e+10 s^-1



yeah

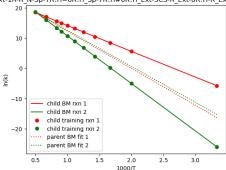
yeah 4.42e+10 s^-1 4.42e+10 s^-1

 $Root_N-1R-inRing_N-3R->O_Ext-2R-R_Ext-2R-R_Ext-3CS-R_int-6R!H-1R_Ext-4R!H-R_Ext-3CS-$



yeah 1.71e+09 s^-1 1.71e+09 s^-1

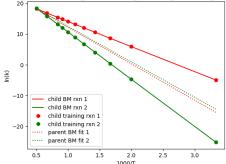
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yeah

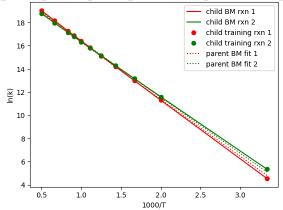
yeah 1.09e+09 s^-1 1.09e+09 s^-1

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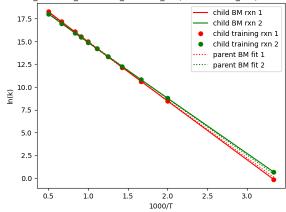
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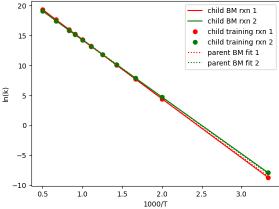
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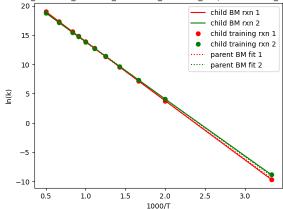
yeah 8.06e+09 s^-1 8.06e+09 s^-1

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yeah yeah 6.45e+09 s^-1 6.45e+09 s^-1

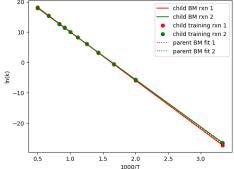
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yeah

yeah 5.44e+10 s^-1 5.44e+10 s^-1

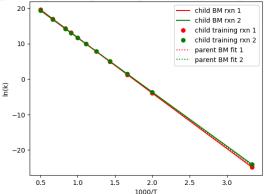
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yeah

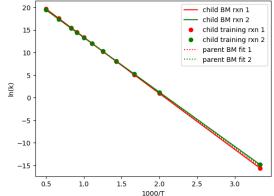
yeah 1.92e+11 s^-1 1.92e+11 s^-1

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yeah yeah 4.13e+10 s^-1 4.13e+10 s^-1

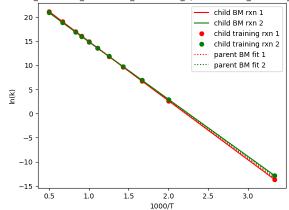
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yeah

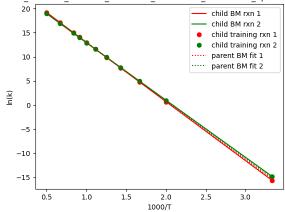
yeah 1.64e+11 s^-1 1.64e+11 s^-1

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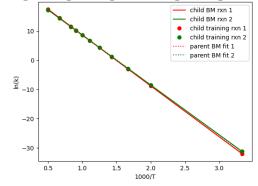
yeah 2.27e+10 s^-1 2.27e+10 s^-1

 $Root_N-1R-inRing_N-3R->O_Ext-2R-R_Ext-3CS-R_Ext-6R!H-R_Ext-6R!H-R_Sp-7R!H=6R!H_Ext-1R-R_Ext-4R!H-R_Ext-6R!H-R_Sp-7R!H=6R!H_Ext-1R-R_Ext-4R!H-R_Ext-6R!H-R_Sp-7R!H=6R!H_Ext-1R-R_Ext-4R!H-R_Ext-6R!H-R_Sp-7R!H=6R!H_Ext-1R-R_Ext-6R!H-R_Ext-6R!H-R_Sp-7R!H=6R!H_Ext-1R-R_Ext-6R!H-R_Ext-6R!H-R_Sp-7R!H=6R!H_Ext-1R-R_Ext-6R!H-$

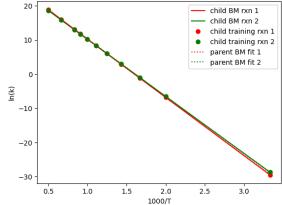


yeah 5.21e+10 s^-1 5.21e+10 s^-1

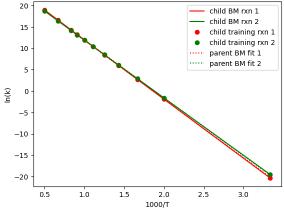
 $Root_N-1R-inRing_N-3R->O_Ext-2R-R_Ext-2R-R_Ext-3CS-R_Ext-6R!H-R_Ext-6R!H-R_N-Sp-7R!H=6R!H_Ext-7R!H-R_Int-8R!H-3CS_Ext-8R!H-R_Ext-7R!H-R_Ext-7R!H-R_Ext-3CS-R_Ext-4R!H-R_Ext-4R!H-R_Ext-1R-R_Ext-3CS-R_Ext-4R!H-R_Ext-1R-R_Ext-3CS-R_Ext-4R!H-R_Ext-3CS-R_Ext-4R!H-R_Ext-1R-R_Ext-3CS-R_Ext-4R!H-R_Ext-3CS-$



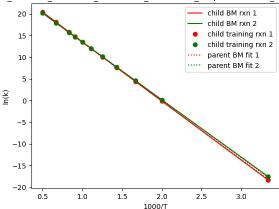
yean yeah 1.84e+11 s^-1 1.84e+11 s^-1



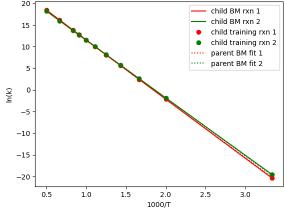
yeah 3.95e+10 s^-1 3.95e+10 s^-1



yeah 1.57e+11 s^-1 1.57e+11 s^-1

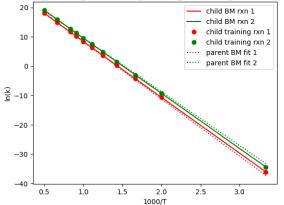


yeah yeah 2.17e+10 s^-1 2.17e+10 s^-1



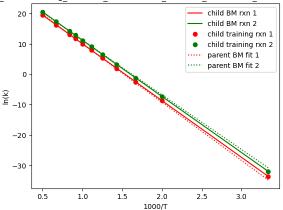
yeah yeah 2.12e+11 s^-1 2.12e+11 s^-1

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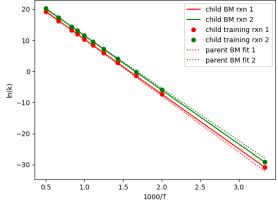
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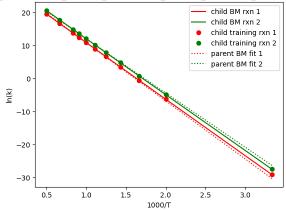
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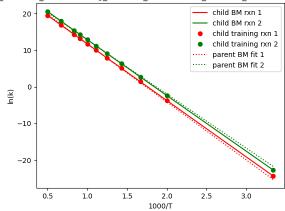
yeah 3.72e+11 s^-1 3.72e+11 s^-1

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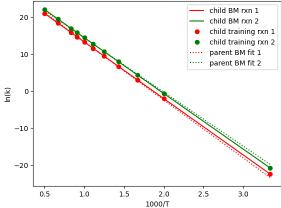


yeah yeah 1.61e+11 s^-1 1.61e+11 s^-1

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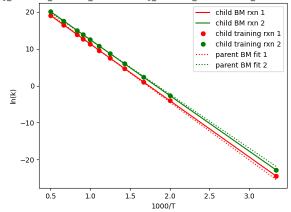


yeah 6.4e+11 s^-1 6.4e+11 s^-1



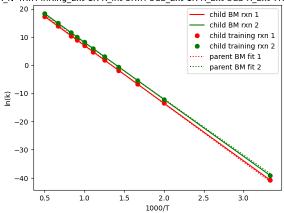
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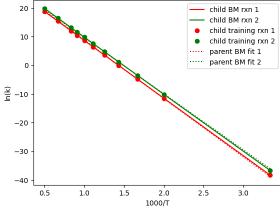
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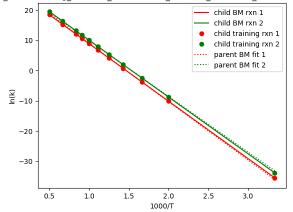


yeah 7.15e+11 s^-1 7.15e+11 s^-1

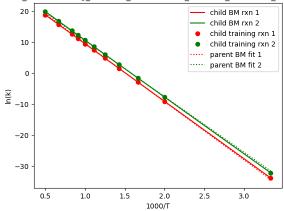
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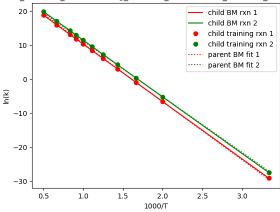
yeah yeah 3.21e+11 s^-1 3.21e+11 s^-1



yeah yeah 3.56e+11 s^-1 3.56e+11 s^-1

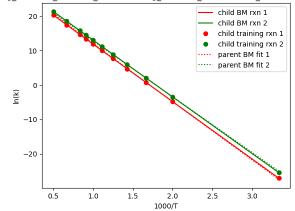


yeah 1.54e+11 s^-1 1.54e+11 s^-1



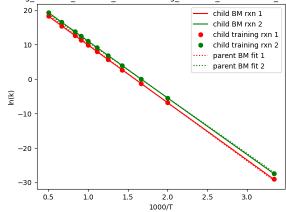
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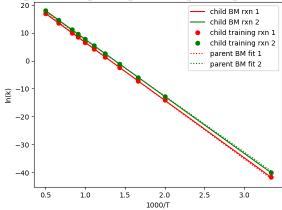
yeah yeah 8.45e+10 s^-1 8.45e+10 s^-1

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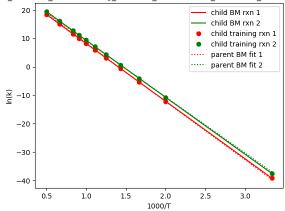
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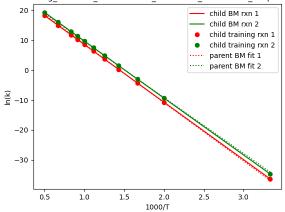
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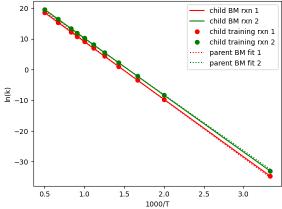
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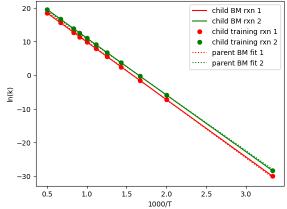


yeah 2.85e+11 s^-1 2.85e+11 s^-1

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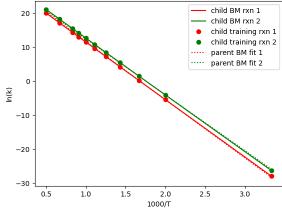


yeah yeah 1.23e+11 s^-1 1.23e+11 s^-1



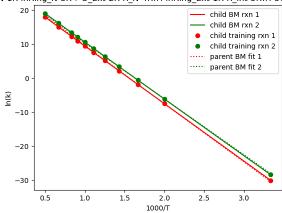
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yeah 6.76e+10 s^-1 6.76e+10 s^-1

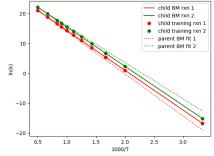
Root_N-1R-inRing_N-3R->O_Ext-2R-R_N-4R!H-inRing_Ext-1R-R_Int-5R!H-3CS_Ext-4R!H-R



yeah

yeah 2.4e+11 s^-1 2.4e+11 s^-1

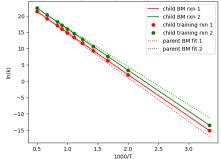
+6R!H=5R!H_N-3CS->S_Ext-3C-R_Ext-7R!H-R_Sp-8R!H=7R!H_Ext-8R!H-R_Ext-3C-R_Ext-10R!H-R_N-Sp-11R!H=10R!H_Ext-3C-R_Ext-4R!H-R



yeah

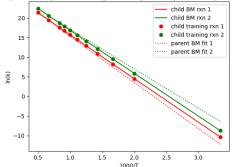
yeah 2.66e+11 s^-1 2.66e+11 s^-1

Root_N-1R-inRing_N-3R->O_Ext-2R-R_N-4R!H-inRing_Ext-1R-R_Ext-5R!H-R_Sp-6R!H=5R!H_N-3CS->S_Ext-3C-R_Ext-7R!H-R_Sp-8R!H=7R!H_Ext-8R!H-R_Ext-3C-R_Ext-10R!H-R_N-Sp-11R!H=10R!H_Ext-4R!H-R_Sp-8R!H=7R!H_Ext-8R!H-R_Ext-3C-R_Ext-10R!H-R_N-Sp-11R!H=10R!H_Ext-4R!H-R_Sp-8R!H=7R!H_Ext-8R!H-R_Ext-3C-R_Ext-10R!H-R_N-Sp-11R!H=10R!H_Ext-4R!H-R_Sp-8R!H=7R!H_Ext-8R!H-R_Ext-3C-R_Ext-10R!H-R_N-Sp-11R!H=10R!H_Ext-4R!H-R_Sp-8R!H=7R!H_Ext-3C-R_Ex



yeah yeah 1.15e+11 s^-1 1.15e+11 s^-1

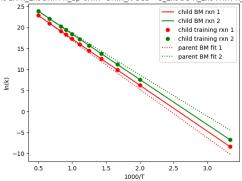
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veah

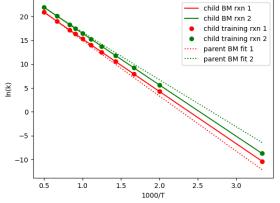
yeah 4.58e+11 s^-1 4.58e+11 s^-1

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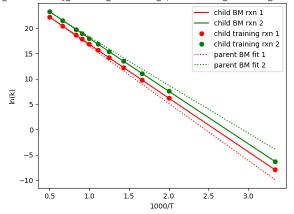


yeah 6.32e+10 s^-1 6.32e+10 s^-1

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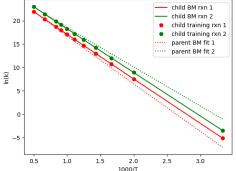
yeah 1.99e+11 s^-1 1.99e+11 s^-1



yeah

yeah 8.9e+10 s^-1 8.9e+10 s^-1

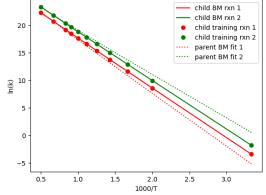
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yeah

yeah 9.89e+10 s^-1 9.89e+10 s^-1

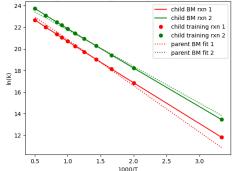
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yeah

yeah 1.07e+10 s^-1 1.07e+10 s^-1

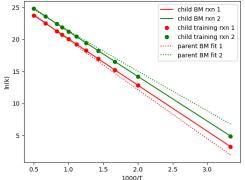
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veah

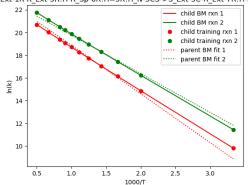
yeah 1.7e+11 s^-1 1.7e+11 s^-1

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yeah

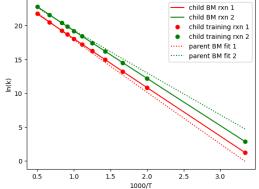
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yeah

yeah 2.35e+10 s^-1 2.35e+10 s^-1

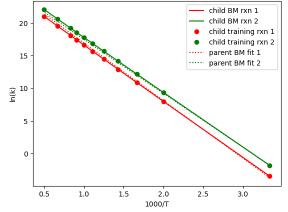
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yeah

yeah 2.25e+10 s^-1 2.25e+10 s^-1

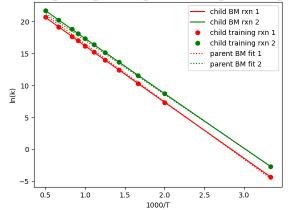
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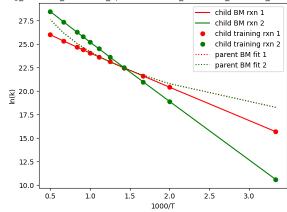
yeah

yeah 1.8e+10 s^-1 1.8e+10 s^-1

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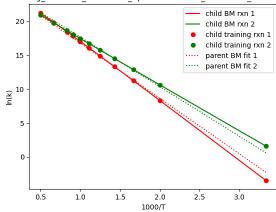


yeah yeah 8.9e+10 s^-1 8.9e+10 s^-1

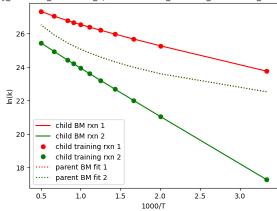


yeah yeah 4.77e+12 s^-1 4.77e+12 s^-1

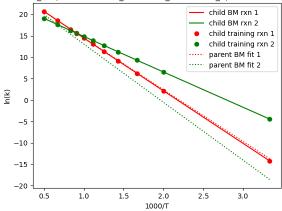
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yeah yeah 4.57e+10 s^-1 4.57e+10 s^-1

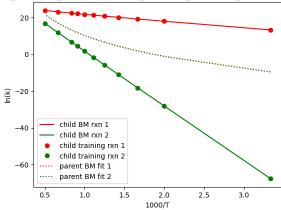


yeah yeah 9.16e+10 s^-1 9.16e+10 s^-1

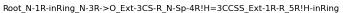


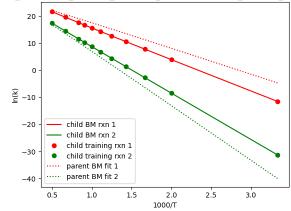
yeah 6.09e+08 s^-1 6.09e+08 s^-1

 $Root_N-1R-inRing_N-3R->O_Ext-3CS-R_N-Sp-4R!H=3CCSS_Ext-3CS-R_Ext-5R!H-R_N-Sp-6R!H=5R!H_3CS-inRing_N-Sp-2R=1R$



yeah 2.315e+10 s^-1 2.315e+10 s^-1





In []: