

$k_n$	Mean KS stat	Acceptance Proportion
$n^{0.1}$	0.0495	0.95
$n^{0.25}$	0.0526	0.94
$n^{0.50}$	0.0634	0.84
$n^{0.75}$	0.1163	0.71
$n^{0.99}$	0.1982	0.57
$n$	0.3768	0.00

Model	Fresh Pins		All Pins	
	Grid-click	Save	Grid-click	Save
Residual	<b>+4.48</b>	<b>+5.98</b>	<b>+0.36</b>	-0.23
ScoreReg	<b>+4.07</b>	<b>+7.88</b>	<b>+0.35</b>	-0.18
Mixup	<b>+3.19</b>	<b>+2.45</b>	-0.02	+0.14
All	<b>+9.68</b>	<b>+9.62</b>	<b>+0.26</b>	-0.32

- (i)  $\gamma_{12} < 0, \gamma_{13} < 0, \gamma_{21} < 0, \gamma_{23} < 0, \gamma_{31} > 0, \gamma_{32} > 0$   
(ii)  $a_{31}\beta_{12} + a_{32}\beta_{21} > r_3$

Research Agent	
Temperature	0.6
Top- $P$	0.95
Top- $K$	20
Max Tokens	20,480
Search Tool	
Search API Top- $K$	100
Reranker Top- $N$	10
Summarizer Temperature	0.6
Summarizer Top- $P$	0.95
Summarizer Max Tokens	8,192

Exposure (ks)		4.00
tbabs		
$N_{\text{H}}$ ( $10^{19} \text{ cm}^{-2}$ )		$5.90^{+5.88}_{-5.39}$
vapec (Low Temp.)		
Temperature	$kT$ (keV)	$0.51^{+0.05}_{-0.04}$
	$T$ (MK)	$5.86^{+0.61}_{-0.47}$
norm ( $10^{-2}$ )		$0.99^{+0.48}_{-0.36}$
vapec (Med Temp.)		
Temperature	$kT$ (keV)	$0.91^{+0.06}_{-0.06}$
	$T$ (MK)	$10.54^{+0.68}_{-0.75}$
norm ( $10^{-2}$ )		$1.72^{+0.46}_{-0.38}$
vapec (High Temp.)		
Temperature	$kT$ (keV)	$2.42^{+0.20}_{-0.13}$
	$T$ (MK)	$28.11^{+2.34}_{-1.56}$
norm ( $10^{-2}$ )		$3.50^{+0.25}_{-0.31}$
$Z$ ( $Z_{\odot}$ )	He	1.00
	C, N, O	$0.36^{+0.07}_{-0.06}$
	Ne	$1.11^{+0.26}_{-0.22}$
	Mg	$0.12^{+0.07}_{-0.06}$
	Al	1.00
	Si	$0.18^{+0.05}_{-0.04}$
	S	$0.34^{+0.08}_{-0.08}$
	Ar	1.00
	Ca	1.00
	Fe	$0.06^{+0.02}_{-0.01}$
	Ni	1.00
$F_{\text{X}}$ ( $10^{-11} \text{ erg cm}^{-2} \text{ s}^{-1}$ )		$5.91^{+0.02}_{-0.06}$
$\chi^2$ ( $d.o.f$ )		265.27 (233)

Model	$MAE_H$	$MSE_H$
w/o pre-trained param	1.134	23.220
TSA-LLM	<b>0.156</b>	<b>0.137</b>
Model	Feature stability	Feature co-direction (>0.8)
w/o pre-trained param	0.673	46.78%
TSA-LLM	<b>0.893</b>	<b>71.44%</b>

Mind attack join policy myself.  
Another character generation someone stand.