

73-5-68

APR 9 REC'D

X-Ray Diffraction

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PURPOSE

The purpose of this experiment has been to determine the crystalline system, unit cell size, cell density, and interatomic distances of the crystalline powder, KI, by X-ray diffraction.

THEORY

A crystal may be considered to be comprised of an orderly array of atoms arranged in lattice formation. Parallel planes of the crystals can reflect X-rays onto a photographic film if the appropriate wavelength of the X-rays is such that the reflected waves are in phase. This also depends upon the distance between lattices or parallel planes.

PROCEDURE

The compound under investigation was powdered KI. The diffraction photograph was developed and the line patterns measured. These values in mm were then converted to degrees theta and corrected for film shrinkage by the equation

$$(R-L)_F \times \frac{360}{4[(R+L)_B - (R+L)_F]} = \theta$$

Appropriate lattice constants and Miller's indices (in this case A) were determined by trial and error calculations. For each line in the forward and back region, the unit cell size, a , was obtained by use of the equation

$$a = \sqrt{\frac{M}{4\pi}}$$

A line of best fit was calculated and graphed for a vs cosine squared theta values, and the intercept a_0 determined.

The density of the unit cell was calculated from the formula

$$d = \frac{m(g)}{V(\text{cm}^3)} = \frac{M_{\text{KI}} (\text{g/mole}) \times 4 \text{ moles/unit cell}}{N (\text{mole/ide}) \times a_0^3 (\text{cm}^3)}$$

By use of the Pythagorean theorem, interatomic distances were obtained.

Errors were determined for material collected in tables 1, 1a, and 1b and figure 1.

Table 1

RE (cm)	Lt (cm)	D (cm)	(R+L)	θ (deg)	$\sin^2 \theta$	$\cos^2 \theta$	$\frac{R}{L}$	A	
13.230	8.885	4.345	22.115	10.93	.03595		111	.01198	
13.575	8.550	5.025	22.125	12.64	.04788		200	.01197	
14.650	7.470	7.180	22.120	18.07	.09621		220	.01207	
15.305	6.850	8.455	22.155	21.28	.13172		331	.01197	
15.500	6.655	8.845	22.155	22.26	.14350		222	.01195	
16.240	5.960	10.280	22.200	25.87	.19038		400	.01189	
16.740	5.480	11.260	22.220	28.34	.22534		331	.01186	
16.885	5.330	11.555	22.215	29.08	.23623		420	.01181	
17.510	4.730	12.780	22.240	32.16	.29919		430	.01196	
17.945	4.315	13.630	22.260	34.30	.31757		511	.01176	
18.670	3.630	15.040	22.300	37.85	.37650		440	.01176	
19.075	3.225	15.850	22.300	39.89	.41129		531	.01175	
19.220	3.100	16.120	22.320	40.56	.43281		442	.01179	
19.765	2.575	17.190	22.340	43.26	.46965		620	.01174	
20.155									
$\Sigma(R+L) = 311.065$		$(\overline{R+L})_F = 22.219$		θ					
$C = 0.25125$				ϕ	$(90^\circ - \phi)$				
30.185	27.802	2.383	57.988	5.99	86.01	.98897	.01103	911	.01191
31.475	26.500	4.975	57.975	12.52	77.48	.95301	.04699	840	.01191
32.550	25.425	7.125	57.975	17.93	72.07	.90522	.09478	662	.01191
32.785	25.200	7.585	57.983	19.09	70.91	.89304	.10696	751	.01190
33.405	24.580	8.825	57.985	22.21	67.79	.85711	.14289	660	.01190
34.140	23.850	10.290	57.990	25.89	64.11	.80933	.19067	644	.01191
35.575	22.400	13.175	57.975	33.15	56.85	.70097	.29903	553	.01188
36.020	21.980	14.040	58.000	35.33	54.67	.66558	.33442	642	.01188
36.570	21.400	15.170	57.970	38.18	51.82	.61791	.38209	640	.01188
36.715	21.255	15.460	57.970	38.90	51.10	.60566	.39434	551	.01188
20.835									
$\Sigma(R+L) = 579.824$		$(\overline{R+L})_B = 57.982$							

Literature Values (Ref. 1)

	cryst. Syst	Unit Cell Size	M	cell density
KI	cubic	7.05 Å	4	3.12

rather use
a log

Table 1a

Calculations Relative To Figure 1

Note: Because of the difficulty in obtaining square roots to the 3rd. significant place, the values of 'a' were kept to 2 places. Since this was done, points 1, 5, & 10 were ^{randomly} chosen to be plotted.
 should use all values

you need 5 significant digits, if you miss the filter carefully.

x	y
.011	7.06
.191	7.07
.394	7.08

$$\begin{aligned} \sum x &= .596 & \sum y &= 21.21 \\ \sum xy &= 4.217 & \sum x^2 &= .192 \\ (\sum x)^2 &= .355 \end{aligned}$$

$$m = \frac{\sum x \sum y - n \sum xy}{(\sum x)^2 - n \sum x^2} = \frac{(.596)(21.21) - 3(4.217)}{.355 - 3(.192)} = .059$$

$$SE_m = \sqrt{\frac{\sum (y - \hat{y})^2}{N-2}} \sqrt{\frac{N}{N \sum x^2 - (\sum x)^2}} = \sqrt{\frac{1 \times 10^{-6}}{3-2}} \sqrt{\frac{3}{3(.192) - .355}} = \pm 1.004$$

$$b = \frac{\sum x \sum xy - \sum x^2 \sum y}{(\sum x)^2 - n \sum x^2} = \frac{(.596)(4.217) - (.192)(21.21)}{.355 - 3(.192)} = 7.058$$

$$SE_b = \sqrt{\frac{\sum (y - \hat{y})^2}{N-2}} = \sqrt{\frac{1 \times 10^{-6}}{3-2}} = \pm 1.001$$

$$\hat{y} = .059x + 7.058$$

x	\hat{y}	y	$(y - \hat{y})^2$
.011	7.059	7.06	1×10^{-6}
.191	7.069	7.07	1×10^{-6}
.394	7.08	7.08	1×10^{-6}

$$b = a_0 = 7.05 \pm 1.001 \text{ \AA}$$

(the error is insignificant & merely due to roundoff)

at 95% & $n = 3$
 $4.3 \times 1.001 = .004$

range = $7.05_4 - 7.06_2$

Literature Value = 7.05_2

lit. value is 7.066

Figure 1

• Exptl.
○ Theoretical
| Error of Exptl.

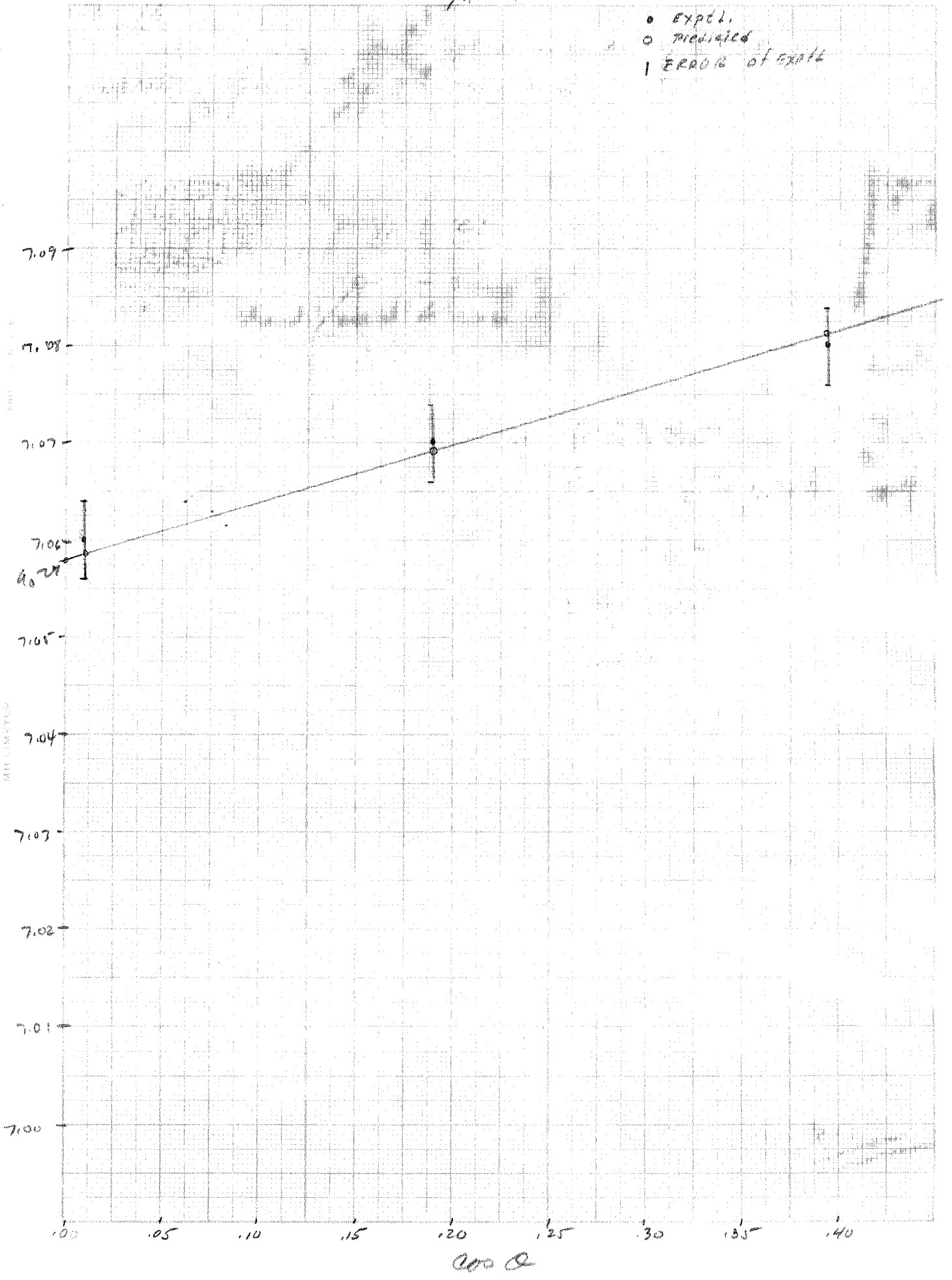
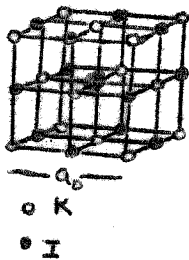
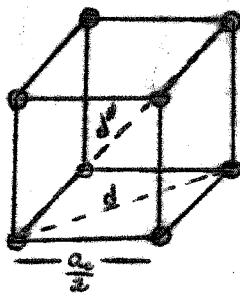


Table 1b

Crystal consists of a face-centered cubic array of K^+ and an interpenetrating face-centered cubic array of I^- ions.



1/8 of cell



$$d = \sqrt{\left(\frac{a_0}{2}\right)^2 + \left(\frac{a_0}{2}\right)^2}$$
$$= \sqrt{\frac{a_0^2}{2}} = \sqrt{\frac{(4.05)^2}{2}} = 4.98 \text{ \AA}$$

$$d' = \sqrt{\left(\frac{a_0}{2}\right)^2 + d^2}$$
$$= \sqrt{\frac{49.70}{4} + (4.98)^2}$$
$$= 6.14 \text{ \AA}$$

table 2

<u>Front</u>	Rt (cm)	Lt (cm)	Δ (cm)	$(R+L)$	θ (deg)	$\sin 2\theta$
	15.150	10.850	4.265	26.000	10.71	.03454
	15.500	10.510	4.950	26.010	12.43	.04623
	16.575	9.410	7.165	25.985	17.80	.09345
	17.225	8.770	8.445	25.995	21.21	.13089
	17.420	8.580	8.840	26.000	22.20	.14276
	18.150	7.845	10.305	25.995	25.88	.19052
	18.650	7.350	11.300	26.000	28.38	.22593
	19.810	7.175	11.635	25.995	29.22	.23830
	19.430	6.565	12.865	25.995	32.31	.30159
	19.875	6.120	13.755	25.995	34.55	.32164
	20.600	5.400	15.200	26.000	38.18	.38208
	20.018	4.995	16.020	26.010	40.24	.41730
	21.140	4.865	16.275	26.005	40.87	.42817
	21.510	4.530	16.980	26.040	42.65	.45903
	21.405					
	22.225					

$\Sigma (R+L)_F = 364.025$

$C = .2512$

$(R+L)_F = 26.002$

Back

	Rt (cm)	Lt (cm)	Δ (cm)	$(R+L)$	θ	$(90^\circ - \theta)$	$\sin 2\theta$
	32.230	29.575	2.655	61.805	6.67	83.33	.98651
	33.400	28.440	4.960	61.840	12.46	75.54	.93764
	34.480	27.355	7.125	61.830	17.90	72.10	.90552
	34.715	27.110	7.605	61.825	19.10	70.90	.89293
	35.335	26.505	8.830	61.840	22.18	67.82	.85748
	36.070	25.780	10.290	61.850	25.85	64.15	.80989
	37.515	24.335	13.180	61.850	33.12	56.88	.70146
	37.940	23.890	14.050	61.830	35.29	54.71	.66625
	38.510	23.320	15.190	61.830	38.16	51.84	.61825
	38.650	23.200	15.450	61.850	38.81	51.19	.60720

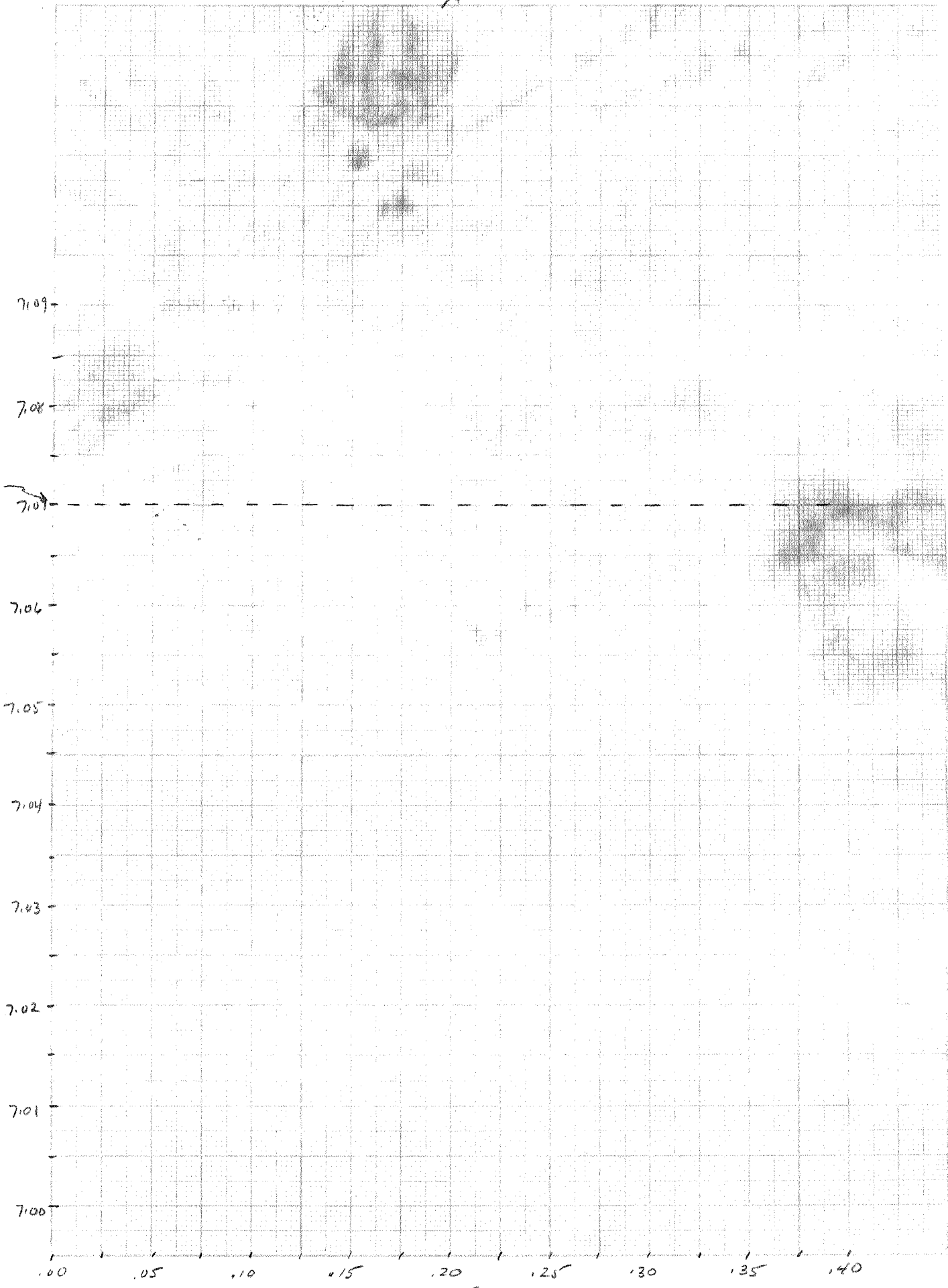
$\Sigma (R+L)_B = 618.350$

$(R+L)_B = 61.835$

Figure 2

90

DISPLACEMENT
MILLIMETER



Co. Q

DISCUSSION AND CONCLUSION

*in kX units,
to convert to Å, multiply by
1.00202*

The experimental value obtained for the unit cell size a_0 is $7.05 \pm .00$ Å, while that found in the literature (reference 1) is 7.05 . The range at the 95% level ($n=3$) is taken to be $7.05 - 7.06$ (see tables 1, 1a, and figure 1). It may also be noted here that values of a_0 to the third place are insignificant; in calculating the values of a for the different lines, square roots were only taken to the second ^{decimal} place. Our a_0 falls directly on the literature value, which itself is only significant to two decimal places. The accuracy is not so surprising when one stops to consider the fact that essentially all systematic error was extrapolated out in figure 1.

As can be expected, the literature value for the density of the unit cell, 3.12 g cm^{-3} , also fell well within the experimental population interval ($3.05 - 3.23$); the mean experimental value is 3.14 g cm^{-3} .

In conclusion one may say that this experiment can be extremely accurate. Considering the relatively small random error, precision was good also.

Yield of Milk

	T	T ²	(T ²) ²
1	2	4	16
1	3	9	81
2	4	16	64
1	5	25	125
4	6	36	216
4	7	49	343
5	7	49	343
6	7	49	343
			<hr/>
			1322

$$n_c = \frac{2t \sum T + 2t^2}{(2t)^2 + 2t^2} = \frac{2(7) \cdot 1322 + 2(7)^2}{(2(7))^2 + 2(7)^2} = 1.2472$$

$$k = \frac{\sum T^2 - 4T^2}{(2t)^2 - 2t^2} = \frac{(8(49) + 11(125)) - 4(1322)}{(2(7))^2 - 2(7)^2} = 1.09$$

$$SE = \sqrt{\frac{1}{n_c(1-k)}} \left| \frac{2(1-k)}{2t-k} \right| \sqrt{\frac{1}{n_c(1-k)}} \sqrt{\frac{1322}{3(7)}} = 1.0117$$

$$SE_b = \frac{\sum T^2}{(2t)^2 - 2t^2} \left| \frac{2(1-k)}{2t-k} \right| \sqrt{\frac{1}{n_c(1-k)}} \sqrt{\frac{1}{2(7)}} = 1.4422$$

Confidence interval

$$1.00 \pm 1.96$$

$$1.00 \pm 1.96(1.0117)$$

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		0011	R	0351	<input checked="" type="checkbox"/>	(0000) → (T, sum)	
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		0014	H	0357		store t,	
		0015	A	0360		add t, to ET	
		0016	C	0360		store sum t	
		0017	R	0300		bring T,	
		0018	H	0356		store T,	
		0019	A	0362		add t, to ET	
		0020	C	0362		store sum T	
		0021	R	0356		bring T,	
		0022	M	0357		multiply T, xt,	
		0023	A	0361		add t, t, to ET	
		0024	C	0361		store ET	
		0025	B	0357		bring t,	
		0026	M	0357		multiply t, xt,	
		0027	A	0360		add t ₁ ² to ET ²	
		0028	C	0360		store ET ²	
		0029	R	0358		bring counter	
		0030	A	0350		add one to counter	
		0031	H	0358		store counter	

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		59	Y	0313	/	<input checked="" type="checkbox"/> dec 21	20
		60	C	0017	/	bring 21	20
		61	S	0359	/	subhad 21 x 21	20
		62	U	0055	/	unsubhad	
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		004	Z	0000		U0000	
		005	X	P0300		tab	
		006	Z	0000			
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		019	Z	0000			
		020	X	P0300		tab	
		021	Z	0000			
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		023	M	0344		set SE _b	@ 9 = 10
		024	D	0306		divides SE _b /10 ²	0
		025	X	R6363		print	(SE _b)
		026	X	U0607			
		027	Z	0000			
		028	Z	0000		print fini	

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		3 7	X B	5348	/	bring ECT	20
		3 8	X D	5333	/	set ZP	q = 10
		3 9	X M	5342	/	⊗ mult ECT x ECT	20
		4 0	X S	5342	/	subt ECT - ECT	20
		4 1	X D	5349	/	divide (E) - ECT	10
		4 2	X M	5333	/	set (A)	q = 20
		4 3	X C	5339	/	⊗ store (B) @	q = 20
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		4 9			/		30005232'
		5 0			/		X 15232'
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		5 2			/		↓
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		5 4			/		
		5 5			/	⊗	
		5 6			/		
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		5 8			/		
		5 9			/	⊗	
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		93	H0340				
		94	C0340				
		95	H0340				
		96	C0340				
		97	H0340				
		98	C0340				
		99	H0340				
		100	C0340				

deletes

~~X B 5309~~

Y 0122

~~X B 5310~~

Y 0124

B 0400

H 0302

bring (0400) (t) 10

store address

bring (0500) (T)

store address

bring t 10

LGP-30 CODING SHEET

PREPARED FOR: _____ PAGE _____ OF _____

JOB NO. _____ PROGRAM NO. _____ PROGRAM PREPARED BY: *Howard [unclear]* PROGRAM CHECKED BY: _____ DATE: *5/7/62*

PROBLEM: _____ TRACK: _____

PROGRAM INPUT CODES	STOP	LOCATION	INSTRUCTION		STOP	CONTENTS OF ADDRESS	NOTES
			OPERATION	ADDRESS			
	/				/		
	/	<input checked="" type="checkbox"/>			/		
		3 2			/		
		3 3		200000	/	10 9 10	
		3 4			/		10
		3 5		<hr/>	<input checked="" type="checkbox"/>	empty	
		3 6			/		
		3 7		11-2	/		
		3 8			/		
		3 9		4b	<input checked="" type="checkbox"/>		
		4 0			/		
		4 1			/		
		4 2			/		
		4 3			<input checked="" type="checkbox"/>		
		4 4		4000000	/		
		4 5			/		
		4 6			/		
		4 7			<input checked="" type="checkbox"/>		
		4 8			/		
		4 9			/		
		5 0			/		
		5 1		XB5540	<input checked="" type="checkbox"/>		
		5 2		YB5400	/		
		5 3		8	/		
		5 4		20000000	/		
		5 5		4	<input checked="" type="checkbox"/>		
		5 6		Ti	/		
		5 7		ti	/		
		5 8			/		
		5 9			<input checked="" type="checkbox"/>		
		6 0			/		
		6 1			/		
		6 2			/		
		6 3		SE	<input checked="" type="checkbox"/>		

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CARRIAGE RETURN

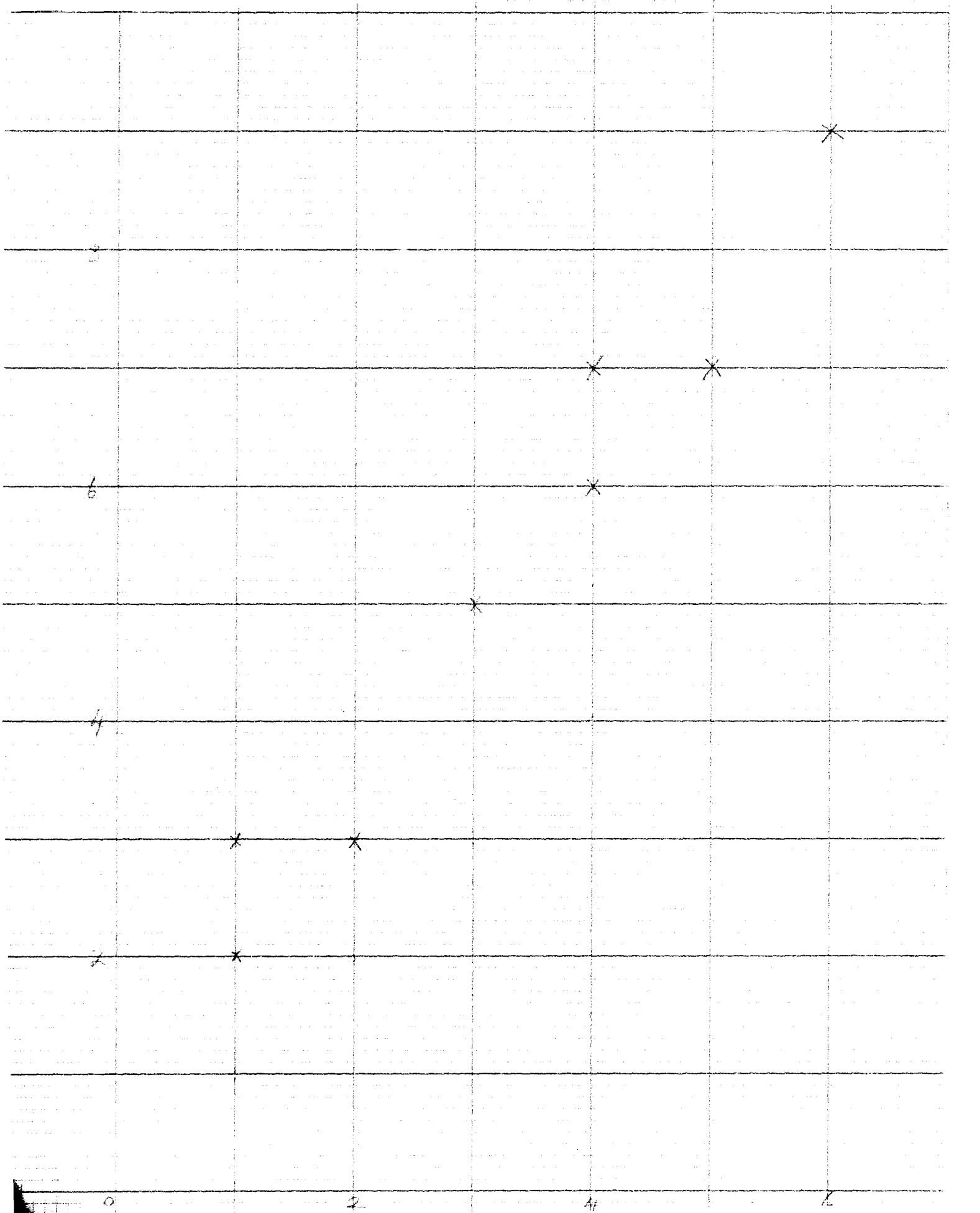
/ = CONDITIONAL STOP CODE

LGP-30 CODING SHEET

PREPARED FOR:				PAGE	OF
JOB NO.	PROGRAM NO.	PROGRAM PREPARED BY:	PROGRAM CHECKED BY:	DATE	
PROBLEM:				TRACK	

PROGRAM INPUT CODES	STOP	LOCATION	INSTRUCTION		STOP	CONTENTS OF ADDRESS	NOTES
			OPERATION	ADDRESS			
	/				/		
	/	011			/		
		3 2			/		
		3 3			/		
		3 4			/		
		3 5			/		
		3 6			/		
		3 7		4	/		
		3 8			/		
		3 9			/		
		4 0			/		
		4 1			/		
		4 2			/		
		4 3			/		
		4 4			/		
		4 5			/		
		4 6			/		
		4 7			/		
		4 8			/		
		4 9			/		
		5 0			/		
		5 1			/		
		5 2			/		
		5 3			/		
		5 4			/		
		5 5			/		
		5 6			/		
		5 7			/		
		5 8			/		
		5 9			/		
		6 0			/		
		6 1			/		
		6 2			/		
		6 3			/		

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0000z'0030px'a0355'

h0358's0359't0317'u0139'b0337'n0330'
c0329'b0338'd0329'e0328's0348'm0327'e0326'b0359'
d0326'h0325'm0328'r5350'u5300'e0324's0360'm0344'
c0323'd0348'h0322'm0328'r5350'u5300'u0300'b03423'

;0005000/0005000'''

moressi and lutherer, a regressiln

Moressi an

d LUTHERER[Moressi znMO

Moressi and

;0005000/0005000Lutherer, a regression
000000000

xr6008'xu6000'xc6300'e0363'e0362'e0361'e0360'
u0008'e0358'b0352'y0013'b0351'y0017'b0400'h0357'a0363'
c0363'b0500'h0356'a0362'e0362'b0356'm0357'a0361'
c0361'b0357'm0357'a0360'e0360'b0358'a0355'h0358'
s0359't0057'u0035'b0363'm0363'e0350'b0360'n0359'
m0354'e0349'b0350's0349'e0348'b0361'n0359'm0354'
c0347'b0363'm0362'h0346's0347'h0345'm0344'd0348'
u0100'b0013'a0355'y0013'b0017'a0355'y0017'u0013'
m0344'e0343'b0360'm0362'e0342'b0363'm0361'h0341'
s0342'h0340'd0348'm0333'e0339'e0338'e0358'b0359'
s0353'e0337'b0357'y0122'b0356'y0124'b0400'u0302'
b0500'h0334'm0333's0337'h0332'n0332'm0331'a0338'
c0338'b0358'a0355'h0358's0359't0317'u0139'b0337'n0330'
c0329'b0338'd0329'e0328's0348'm0327'e0326'b0359'
d0326'h0325'm0328'r5350'u5300'e0324's0360'm0344'
c0323'd0348'h0322'm0328'r5350'u5300'u0300'b0343'
d0306'xr6363'xu0607'z0000'xp0300'z0000'b0324'm0344'
d0306'xr6363'xu0607'z0000'xp0300'z0000'b0339'd0307'
xr6363'xu0607'z0000'xp0300'z0000'b0321'm0344'd0306'
xr6363'xu0607'z0000'z0000';0005000 ;0005300c0321'u0200'm0343's0339'
c0336'u0124',0000008'j800000'32000''''''b0122'a0355'
y0122'b0124'a0355'v0124'u0122',0000035''''''8000000'

'1000000'4000000'200000'1111111111'4000000'1111111111'
8'20000000'4'1111111111'

;0005600/0005600

Print routine

00000000

t0036'u0009'xz2800'xp0000'h0047't0062'b0049'
n0029'u0012'xp0359'a0000'z0000'e0048'h0049'
m0057'e0058'xh6359'xa6360'xh6360's0062't0044'
b0043'u0030'xp0353'b0046'c0047'xc6360'cb6313'
u0000',0000001'f'xa6359'c0003'b0047's0062'u0003'
'xc6322'xs6322'xp0724'u0010''xc6313'
u0051'xp0253'b0023'u0031',0000005'j00''7wwwwwwq'
'b0002'r0010'u0025',0000001'f'xc6313'
u0059',0000002'2800'3j00'r0010'u0024',0000001'lf36q'xz0400'u0000'
.0000000'

;0005700/0005700000/0005700

t0061's0044't0062's0039't0026's0020'
u0014'xz0200'a0051'r0059'u0055',0000003'7wwwwwwq'wq00'
40000000't0008'a0051'r0059'u0055',0000003'7wwwwwwq'
'7w0000'a0007'u0023'r0059'u0055',0000001'wwwwq'a0012'
t0021'a0007'u0030'r0059'u0055',0000001'wwwwwwq'xh6319'
m0013'xc6321'u0037'xb6323'u0040',0000001'wwwj'xd6319'
u0042'xa6321'u0045'xz0001'xh6324'u0047'xs6319't0052'xb6324'
u0000',0000001'800000'xb6324'u0033'xz0000'm0013'u0058'
xz0000'xc6323'b0000'u0033'xz0000'xc6320'u0050'.0000000'

;0005161 xr5750xu5700

;0005152 xr5750

;0005152 xr5750xu5700

;0005202 xr5663xu5655

;0005210 xr5663xu5655

;0005217 xr5663xu5655

;0005225 xr5663xu5655

0+105400'1'1'2'3'4'4'5'6'-0000000'

0+105500'2'3'3'5'6'7'7'9'-0000000'

0+295359'8'-0000000''

0+105400'1'1'2'3'4'4'5'6'-0000000'

0+105500'2'3'3'5'6'7'7'9'-0000000'

0+295359'8'-0000000''3+

.00050000+105400'1'1'2'3'4'4'5'6'-0000000'

0+105500'2'3'3'5'6'7'7'9'-0000000'

0+295359'8'-0000000''0005329

;0005157xh5323

;0005224xd5300
;0005308,000000013200000
;0005330,0000001400000
.0005330
.00050000+105400'1'1'2'3'4'4'5'6'-0000000'
0+105500'2'3'3'5'6'7'7'9'-0000000'
0+295359'8'-0000000'' 103 19 .0005224 .0005224
.0005308;0005308,00000013200000.0005222;0005308,0000001 j80000 .0005222;0005308,000000119000000.0005222

3
.0005200- 80.0005200 103 19 3.0005105
;0005103xu5232;0005232xd5333xm5362xc5342xb5348xd5333xb5361
xd5333xm5363xs5342xd5348xm5333xc5339xu5113
.00050000+105400'1'1'2'3'4'4'5'6'-0000000'
0+105500'2'3'3'5'6'7'7'9'-0000000'
0+295359'8'-0000000'' 103 19 3.0005215.0005102.0005356.00050000+105400'1'1'2'3'4'4'5'6'-0000000'
0+105500'2'3'3'5'6'7'7'9'-0000000'
0+295359'8'-0000000'';0005309 xb5400xb5500
;0005351 xb5500xb5400

;0005118 xb5309
;0005120 xb5310
.0005000
0+105400'1'1'2'3'4'4'5'6'-0000000'
0+105500'2'3'3'5'6'7'7'9'-0000000'
0+295359'8'-0000000''

;0005237 xu5250
;0005250 xc5249xb5361 xu5338
;0005241 xd5249.0005235.0005232.0005235.0005251.00053.0005239.0005363.00053.0005251;0005252xu5238
.0005235;000.0005252c e0000 e01fj.0005252;0005252 xu5238.0005252.0005235

130 ,p1 103 ,^2

.0005363.0005360.0005338.0005332.0005122.0005118.0005122;0005303 a xa5339;0005132 xt5314
.0005314.0005002

130 103

.0005118
;0005127 xs5336
.0005118

130 103
.0005118.0005331;0005331,0000001 40000000.0005118

130 103 0005118.0005331.0005331

130 103 .0005110;0005132xc733x

.0005113

.0005142.0005113

;0005137xt5314

.0005113

130 23 103 43

.0005148

.0005327.0005145

.0005222;0005209 xd5308

.0005113

130 12 103 43

.0005000

0+105400'1'1'2'3'4'4'5'6'-0000000'

0+105500'2'3'3'5'6'7'7'9'-0000000'

0+295359'8'-0000000''

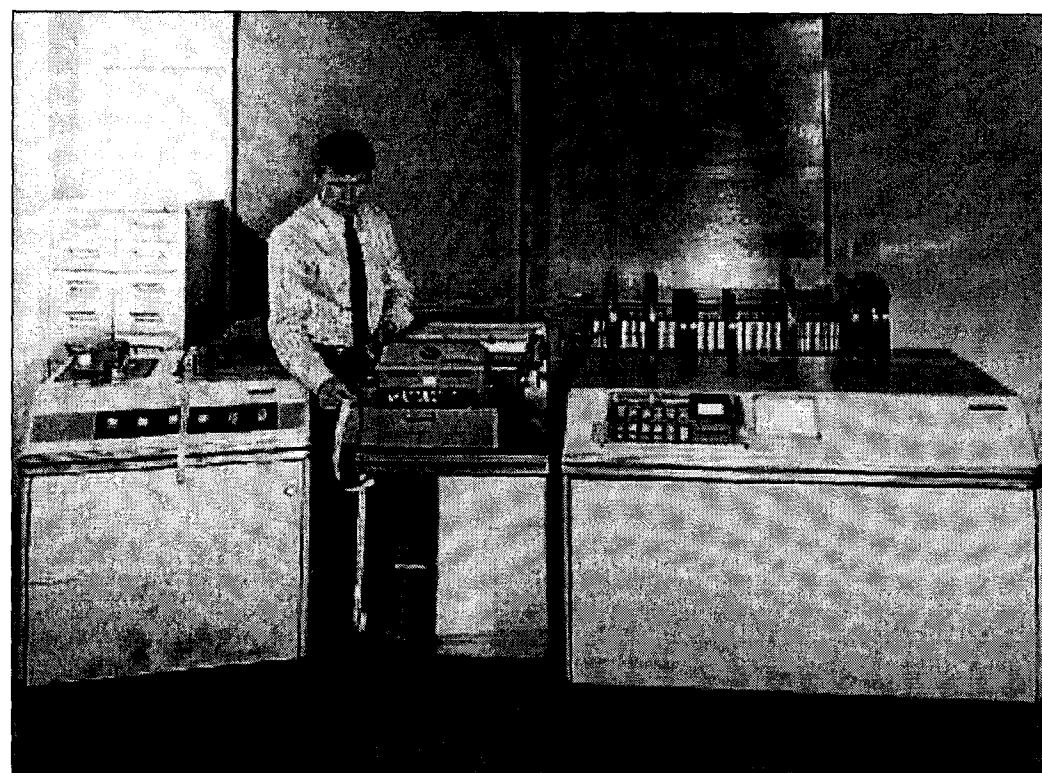
130 12 103 43

Computermuseum der Fakultät Informatik

LGP-30

Seit dem 24.11.1999 besitzt das Computermuseum einen LGP-30. Er ist eine großzügige Leihgabe des Fachbereiches IT der FH-Esslingen.

Hierbei handelt es sich um einen röhrenbestückten Magnettrommelrechner der ersten Generation. Angesichts seines Volumens und seines Einsatzgebietes kann man ihn als einen sehr frühen Mini- oder Personalcomputer bezeichnen. Der Rechner ist in sehr gut erhaltenen Originalzustand, und inzwischen wieder voll funktionsfähig.



<<< >>> ^^^

Zum obichten Bild: Die Aufnahme stammt etwa aus dem Jahr 1968 und zeigt Herrn Richard Herbrük am LGP-30 des Institut für Verfahrenstechnik und Dampfkesselwesen. Leider ist das Photo sehr verblasst, so dass man die Farbe des Rechners nicht mehr erkennen kann.

Was jedoch deutlich zu sehen ist, ist der dunkle Kratzer auf der Front des Lochstreifenleser/stanzer. Er ist noch heute zu sehen. Ausserdem sind die Tesafilm Spuren noch vorhanden, mit der die Pocketreferencecard rechts neben dem Display des Rechners festgeklebt war. Da sie sich als absolut Lösungsmittelfest zeigten, haben wir wieder eine solche Karte dahingeklebt, wo sie vor 32 Jahren auch schon war.

Auf dem Photo ist also tatsächlich der Rechner abgebildet, der heute im Computermuseum steht.

Mehr Informationen zum LGP-30:

- * Allgemeines + Bilder
- * Das erste Einschalten (28.12.99)
- * Zwei Befehle funktionieren nicht (5.1.00)
- * Pi auf 50 Stellen + Highspeed Tapereader (26.1.00)

- * Highspeed Tapereader (2.2.00)
- * Das Logik-Board (3.4.00)
- * Kolloquium am 11.7.2000

zur Homepage des Computermuseums

LPG-30

rotren bestr. der
Museum

1958

Royal Mail Computer
dura memory computer