	1	<b>.</b>	
J	$\nu\left(P_{J}\right)$	$\nu\left(R_{J}\right)$	m
29	1261.92		-29
28	1264.21		-28
27	1266.45		-27
26	1268.73		-26
25	1270.97		-25
24	1273.23		-24
23	1275.49		-23
22	1277.75		-22
21	1280.01		-21
20	1282.25		-20
19	1284.48		-19
18	1286.72		-18
17	1288.96		-17
16	1291.21		-16
15	1293.48		-15
14	1295.73		-14
13	1297.99		-13
12	1300.28		-12
11	1302.56		-11
10	1304.85		-10
9	1307.14		<b>-</b> 9
8	1309.45		-8
7	1311.78		-7
6	1314.07		-6
5	1316.43		-5
4	1318.76		-4
3	1321.02		-3
2	1323.39		-2
1	1325.70		-1

J	$\nu\left(P_{J}\right)$	$\nu\left(R_{J}\right)$	m
$\frac{0}{0}$	$\nu (IJ)$	$\frac{\nu(nj)}{1330.45}$	1
$\begin{array}{c c} 0 \\ 1 \end{array}$		1332.84	
			$\begin{vmatrix} 2 \\ 2 \end{vmatrix}$
2		1335.25	3
3		1337.65	4
4		1340.05	5
5		1342.37	6
6		1344.82	7
7		1347.19	8
8		1349.58	9
9		1351.99	10
10		1354.45	11
11		1356.82	12
12		1359.24	13
13		1361.67	14
14		1364.05	15
15		1366.55	16
16		1368.90	17
17		1371.45	18
18		1373.84	19
19		1376.28	20
20		1378.77	21
21		1381.19	22
22		1383.67	23
23		1386.21	24
24		1388.45	25
25		1390.90	26

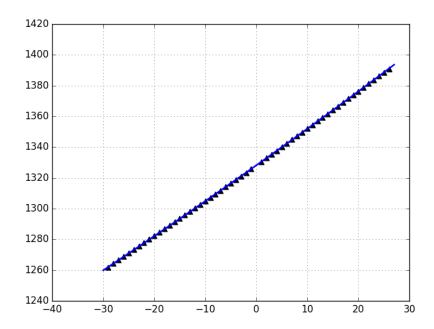


Рис. 1: Обработка результатов по ур. (I.2) полосы  $\nu_4 + \nu_5$ 

	расчет	лит.
$\nu_0,  { m cm}^{-1}$	1328.17	1328.18
$B_1, \text{ cm}^{-1}$	1.178	
$B_2,  \text{cm}^{-1}$	1.175	
$B_e$ , cm <sup>-1</sup>	1.174	1.1751
$\alpha_{e,eff}, \text{ cm}^{-1}$	-0.00257	-0.003586
$I$ , $\Gamma$ ·cm <sup>2</sup>	$2.384 \cdot 10^{-39}$	$2.368 \cdot 10^{-39}$
$r_{CC}$ , Å	1.213	$1.2088 \pm 0.0002$
$r_{CH}, Å$	1.050	$1.0566 \pm 0.0003$

$$\nu(J) = \nu_0 + (B' + B'') m + (B' - B'') m^2$$

$$B' = B_e - \frac{1}{2} \alpha_e$$

$$B'' = B_e - \frac{3}{2} \alpha_e$$

$$B_e = \frac{1}{2} (3B'' - B')$$

$$\alpha_e = B'' - B'$$

$$A_e = B'' - B'$$

$$R_H^2 = \frac{I_D - I_H}{2(m_D - m_H)}$$

$$R_C^2 = \frac{I_H}{2m_C} - \frac{m_H}{m_C} \cdot \frac{I_D - I_H}{2(m_D - m_H)}$$

$$r_{CC} = 2 \cdot R_C$$

$$r_{CH} = R_H - R_C$$