



	<b>BAG title:</b> <b>A number of Proteins from Bacteria to Eukarya and from Antarctic to Volcanic Areas</b>	<b>Experiment number:</b> LS-1824
<b>Beamline:</b> ID-14-4	<b>Date of experiment:</b> from: 23 Nov . 2000 to: 25 Nov. 2000	<b>Date of report:</b> 28/02/2001
<b>Shifts:</b> 6	<b>Local contact(s): Dr. Gordon LEONARD</b>	<i>Received at ESRF:</i>
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## Report:

Two data set on mouse  $\alpha$ -dystroglycan were collected. In the first case the crystal underwent a significant decay. Data on the second crystal was of better quality.

As an example the following table shows statistics on the second data set up to 2.3 Å resolution:

## Table

Shell		I/Sigma in resolution shells:								
Lower limit	Upper limit	% of reflections with I / Sigma less than								total
		0	1	2	3	5	10	20	>20	
40.00	4.95	0.3	0.7	1.2	1.5	2.5	6.9	81.1	14.1	95.2
4.95	3.93	0.1	0.2	1.5	2.3	3.6	9.5	86.9	10.9	97.7
3.93	3.44	0.6	1.6	3.2	4.5	7.4	25.6	97.2	0.0	97.2
3.44	3.12	1.1	2.8	5.2	9.6	17.1	59.8	97.1	0.0	97.1
3.12	2.90	2.0	5.7	10.5	15.7	27.0	76.4	96.7	0.0	96.7
2.90	2.73	4.0	10.0	17.2	25.3	41.9	84.2	97.0	0.0	97.0
2.73	2.59	6.3	13.3	24.1	36.4	51.7	87.8	95.5	0.0	95.5
2.59	2.48	8.9	18.6	31.0	43.0	62.6	91.9	96.0	0.0	96.0
2.48	2.38	9.2	20.8	34.8	48.0	67.6	92.5	94.8	0.0	94.8
2.38	2.30	11.3	26.2	40.5	53.7	72.2	93.2	95.5	0.0	95.5
All hkl		4.4	10.0	16.9	24.0	35.3	62.7	93.8	2.5	96.3

Summary of reflections intensities and R-factors by shells

R linear =  $\text{SUM} ( \text{ABS}(I - \langle I \rangle) ) / \text{SUM} (I)$

R square =  $\text{SUM} ( (I - \langle I \rangle) ** 2 ) / \text{SUM} (I ** 2)$

Chi\*\*2 =  $\text{SUM} ( (I - \langle I \rangle) ** 2 ) / ( \text{Error} ** 2 * N / (N-1) )$

In all sums single measurements are excluded

Shell limit	Lower limit	Upper limit	Average I	Average error	Norm. stat.	Linear Chi**2	Square R- fac	R- fac
40.00	4.95	4.95	3793.6	227.0	131.7	0.799	0.029	0.036
	4.95	3.93	4764.4	297.1	168.8	0.869	0.032	0.034
	3.93	3.44	2944.7	228.8	115.0	0.931	0.044	0.045
	3.44	3.12	1441.1	155.6	73.7	0.868	0.058	0.056
	3.12	2.90	896.7	111.9	62.7	1.017	0.084	0.078
	2.90	2.73	569.6	86.2	58.2	1.129	0.114	0.104
	2.73	2.59	425.6	77.4	58.3	1.241	0.158	0.143
	2.59	2.48	298.9	70.5	58.9	1.250	0.213	0.202
	2.48	2.38	268.7	72.4	62.7	1.261	0.254	0.243
	2.38	2.30	243.5	74.6	66.0	1.266	0.290	0.259
All reflections			1574.2	140.7	85.8	1.059	0.056	0.043

**At present (28/02/01) a manuscript is in preparation. This project is finished**