



	Experiment title:	Experiment number: MX-1140
Beamline: ID29	Date of experiment: 18/06/2011 from: 9h30 to: 8h00	Date of report: 13/02/2012
Shifts: 3	Local contact(s): Dr Gordon LEONARD	<i>Received at ESRF:</i>
Names and affiliations of applicants (* indicates experimentalists): Benoît Gigant * Marcel Knossow*		

Report:

The interaction of kinesin with tubulin. (8 hours)

During this session we have tested 13 crystals of the head domain of a kinesin in a complex with tubulin further stabilized by an anti-tubulin DARPin. We collected 11 dataset from 6 crystals, using either the helical data collection strategy or not. The crystals belong to the P222 space group with unit cell parameters $a=78$, $b=159$, $c=175$. The diffraction is highly anisotropic, e.g. 3.5 Ang in two directions, 4.5 Ang in the third direction for the 'best' crystal. The statistics are: $I/\sigma(I)= 15.7 (2.3)$, $R_{meas}= 6.2 (92.7)$, completeness= 98.8 (97.4), multiplicity= 5.1 (5.2). The structure has been solved by molecular replacement and refinement with different possible strategies to deal with anisotropy is underway.