EUROPEAN **S**YNCHROTRON **R**ADIATION **F**ACILITY

INSTALLATION EUROPEENNE DE RAYONNEMENT SYNCHROTRON

ESRF

Experiment Report Form

The double page inside this form is to be filled in by all users or groups of users who have had access to beam time for measurements at the ESRF.

Once completed, the report should be submitted electronically to the User Office using the **Electronic Report Submission Application:**

http://193.49.43.2:8080/smis/servlet/UserUtils?start

Reports supporting requests for additional beam time

Reports can now be submitted independently of new proposals – it is necessary simply to indicate the number of the report(s) supporting a new proposal on the proposal form.

The Review Committees reserve the right to reject new proposals from groups who have not reported on the use of beam time allocated previously.

Reports on experiments relating to long term projects

Proposers awarded beam time for a long term project are required to submit an interim report at the end of each year, irrespective of the number of shifts of beam time they have used.

Published papers

All users must give proper credit to ESRF staff members and proper mention to ESRF facilities which were essential for the results described in any ensuing publication. Further, they are obliged to send to the Joint ESRF/ ILL library the complete reference and the abstract of all papers appearing in print, and resulting from the use of the ESRF.

Should you wish to make more general comments on the experiment, please note them on the User Evaluation Form, and send both the Report and the Evaluation Form to the User Office.

Deadlines for submission of Experimental Reports

- 1st March for experiments carried out up until June of the previous year;
- 1st September for experiments carried out up until January of the same year.

Instructions for preparing your Report

- fill in a separate form for each project or series of measurements.
- type your report, in English.
- include the reference number of the proposal to which the report refers.
- make sure that the text, tables and figures fit into the space available.
- if your work is published or is in press, you may prefer to paste in the abstract, and add full reference details. If the abstract is in a language other than English, please include an English translation.

ESRF	**Experiment title:** Conformational states of myosin VI, an actin-based motor that moves backwards.	**Experiment number**: **30-01-113**
Beamline: BM30	**Date of experiment**: from: 30-04-00 to: 02-05-00	**Date of report**: 28-02-01
Shifts: 2 shifts	**Local contact(s)**: Philippe Carpentier	*Received at ESRF:*

Names and affiliations of applicants (* indicates experimentalists):

Dr. Anne HOUDUSSE - Institut Curie Paris

Dr. Amel BAHLOUL - Institut Curie Paris

Dr. Pierre-Damien COUREUX - Institut Curie Paris

Dr. Daniel PICOT – IBPC Paris

Report:

We have collected a 4.0 Å resolution data set of one of these myosin VI crystals. The size of the crystal (0.4 µm x 0.2 µm x 0.2 µm) was limited since it was obtained without seeding in one of the early screens for crystallization conditions.

Although the data set was pretty complete up to 4.0 Å resolution, we have not been able to solve the structure by molecular replacement. The fact that about 8% of the data between 20 and 9.8 Å resolution are missing due to overloads may be responsible for this. It is however likely that solving the structure will require the use of heavy atom derivatives.