ESRF	**Experiment title:** High resolution data sets on MurE Threonine synthase : search for high resolution data	**Experiment number:** LS1506
Beamline: ID14 EH2	**Date of experiment:** from: 25 to: 26 november 1999	**Date of report:** 28-2-2000
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Report:

1) MAD data collection on MurE

MurE belongs to a family of ligases which are involved in the biosynthesis of the the muropeptide, the precursor of the bacterial cell wall. The protein is a possible target for antibacterial drug therapy. Two data sets were collected from Se substituted MurE crystals. Data were collected firstly, to 1.6 Å - due to the long c axis (234 Å) spots were very close – and secondly to 2Å. Data were processed using XDS. Data are 98.3% (91.2% in outer shell) complete, Rsym 6.6% (22.0% in outer shell), redundancy 4.5. The structure has been refined against the data at 2Å to give an R=20% and Rfree 23%

2) Threonine synthase : search for high resolution data

After solving the structure to 2.2Å resolution, we seeked higher resolution to have a better view of the active site. However this run did not allow us to get it, probably because our crystals were somewhat too old.