ESRF	Experiment title: Structural changes and amorphization of Ca(OH)2 single crystalsunder high pressure		Experiment number: HS - 163	
Beamline: ID 11	Date of Experiment : from: 20.02.	to: 24.02.97	Date of Report: preliminary	
Shifts:	Local contact(s): Dr. Heinz Graafsma		Received at ESRF :	

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Report:

During our beamtime we

- were able to develop a procedure to center the crystal in the pressure cell with respect to the goniometer. This procedure is based on the profile of the primary beam as seen by a photo diode and cut by the metal gasket which acts as an aperture.
- obtained intensity data from 2 crystals (in 2 pressure cells) at altogether 6 pressures ranging from I .8 to 9.4 GPa.
- O were able to index the reflections of the second crystal (which was investigated at the higher pressures) on the basis of the orientation matrix which was already established at our laboratory at Munich and transformed according to the differences in the definition of the arcs of the respective goniometers and the offset in φ .
- O measured the absorption profiles of the pressure cells after release of pressure and reopening.