



ESRF

Experiment title: Crystal structure of Bechgaard salts under pressure	Experiment number: HS-3107	
Beamline: ID09A	Date of experiment: from: 11 Nov 2006 to: 14 Nov 2006	Date of report: 27 Feb 2007
Shifts: 9	Local contact(s): Dr. Michael HANFLAND (e-mail: hanfland@esrf.fr)	<i>Received at ESRF:</i>
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Report:

Published paper #1:

A. Pashkin, M. Dressel, S.G. Ebbinghaus, M. Hanfland, and C.A. Kuntscher
Synth. Met. **159**, 2097 (2009):

Abstract:

The crystal structures of the quasi-one-dimensional organic salts (TMTTF)₂PF₆ and (TMTSF)₂PF₆ were studied by pressure-dependent x-ray diffraction up to 10 GPa at room temperature. The unit-cell parameters exhibit a clear anomaly due to a structural phase transition at 8.5 and 5.5 GPa for (TMTTF)₂PF₆ and (TMTSF)₂PF₆, respectively.