



	Experiment title: Atomic x-ray absorption of iodine by thermal decomposition of I ₂ vapor	Experiment number: HD-156
Beamline: BM29	Date of experiment: from: 04 July 2007 to: 10 July 2007	Date of report: 15 February 2008
Shifts: 15	Local contact(s): Dr. Sakura Pascarelli	<i>Received at ESRF:</i>
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Report:

Based on the experiment data, the article has been published:

J. Padežnik Gomilšek, I. Arčon, S. de Panfilis and A. Kodre, *X-ray absorption coefficient of iodine in the K edge region*, J. phys. B: At. mol. opt. phys. 41, 025003 (5pp) (2008):

Abstract. X-ray absorption spectroscopy of iodine vapour was used for absolute determination of the absorption coefficient of iodine within a region of 4.3 keV around the K edge. The comparison with data in available compilations is given, together with the compressed form of the Victoreen asymptotics below and above the edge. The deviation from the asymptotics due to multielectron excitations and virtual processes immediately above the edge is discussed.

Another article about the thermal decomposition of iodine vapor is in preparation.