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Record 1 of 1**Author(s):** Kardjilov, N (Kardjilov, N.); Hilger, A (Hilger, A.); Manke, I (Manke, I.); Strobl, M (Strobl, M.); Treimer, W (Treimer, W.); Banhart, J (Banhart, J.)**Editor(s):** Arif, M; Downing, RG**Title:** Multifunctional Tomography Instrument with Cold Neutrons at HMI**Source:** NEUTRON RADIOGRAPHY: 28-33 2008**Language:** English**Document Type:** Proceedings Paper**Conference Title:** 8th World Conference on Neutron Radiography**Conference Date:** OCT 16-19, 2006**Conference Location:** Gaithersburg, MD**Conference Host:** Natl Inst Standards & Technol**KeyWords Plus:** RADIOGRAPHY

Abstract: The new cold neutron radiography instrument CONRAD is a multifunctional facility for radiography and tomography with cold neutrons at Hahn-Meitner-Institut Berlin. It is located at the end of a curved neutron guide which faces the cold neutron source of the BER-II research reactor. The use of cold neutrons for radiography purposes increases the image contrast and improves the sensibility for the detection of small amounts of water and hydrogenous materials in metal matrixes. Also the cold neutron beam can be modified easily by using diffraction and neutron optical techniques. This enables it to perform radiography and tomography experiments with more sophisticated measuring techniques like energy dispersive and phase-contrast imaging.

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