



E I N L A D U N G

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V E R A - S E M I N A R

von

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Comprehensive Nuclear-Test-Ban Treaty Organization, Vienna

**The global radionuclide monitoring network for the  
Comprehensive Nuclear-Test-Ban Treaty  
Organization (CTBTO)**

The International Monitoring System (IMS) is a unique global network for surveillance of the Comprehensive Nuclear-Test-Ban Treaty. The radionuclide monitoring component of this network, which is set up to detect fission and activation products in the atmosphere at trace levels, is unprecedented in its combination of global coverage, sensitivity, network density and temporal resolution. Of the 80 globally distributed radionuclide stations, which measure aerosol borne radionuclides, 40 stations will be equipped with sensors to measure Xenon isotopes. Xenon isotopes are of particular interest for monitoring underground nuclear explosions and thus Xenon monitoring systems are a critical key component for the verification of the Nuclear Test Ban Treaty. The Xenon monitoring technology used for the CTBT has been specifically developed for the IMS.

**Donnerstag, 10. Mai 2012, 16:30 Uhr**

**1090 Wien, Währinger Str. 17, "Kavalierstrakt",  
1. Stock, Victor-Franz-Hess Hörsaal**