Japan Geoscience Union Meeting 2012
(May 20-25 2012 at Makuhari, Chiba, Japan)
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HSC24-P14 Room:Convention Hall Time:May 23 15:30-17:00

Development of a tunable differential absorption lidar using a mid-infrared laser to detect toxic gasses

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Shinshu University is cooperating with RIKEN to develop a differential Absorption LIDAR (DIAL) using a mid-infrared laser to detect toxic gasses with a high sensitivity. The gasses have the individual absorption spectrum in mid-infrared region. So we are developing a tunable laser with the spectral range of 6˜10 micro m. In this talk, we present the detail lidar system, especially with a data acquisition system.

Keywords: lidar, DIAL, mid-infrared laser, toxic gass