

Japan Geoscience Union Meeting 2011

(May 22-27 2011 at Makuhari, Chiba, Japan)

©2011. Japan Geoscience Union. All Rights Reserved.



MIS029-06

Room:203

Time:May 23 17:45-18:00

Energetic radiation associated with thunderstorm activity on Mt. Fuji.

Tatsuo Torii¹, Masashi Kamogawa^{2*}, syou katakura², Akihiro Tanaka², Takeshi Sugita³, Misao Ikuta⁴, Hiroshi Yasuda⁵

¹Fugen Decommissioning Eng. Center, JAEA, ²Dpt. of Phys., Tokyo Gakugei Univ., ³SSL, ⁴Shimane Pref. Inst. Health & Env. Sci., ⁵National Institute of Radiological Sci.

Gradual energetic radiations probably caused by a summer thunderstorm have been observed at the top of Mt. Fuji, Japan. The largest of such variation was gradual and lasted for about 20 minutes, and was found to be high-energy gamma rays having a continuous energy spectrum up to 10 MeV or more. As for the feature of these variations, such variation might be caused by the bremsstrahlung photons generated by the energetic electrons produced continuously with an intense electric field in the thundercloud rather than originated in the process of lightning discharge.