

## **Electron paramagnetic resonance of radiation-induced paramagnetic centers in an aerogel**

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### **Abstract**

Silicon oxide aerogel samples irradiated with x rays at room temperature have been analyzed using the electron paramagnetic resonance method. It has been found that three types of paramagnetic centers appear: paramagnetic centers with a g factor of 2.0035, centers associated with the presence of protons in SiO<sub>2</sub> globules, and centers in the adsorbed film on the aerogel surface. The fast ( $T_{\text{fast}} = 30$  h) and slow ( $T_{\text{slow}} = 70$  d) processes have been revealed in the recombination of these centers. © 2008 Pleiades Publishing, Ltd.

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