

## **Long-lived photon echo: Graphical method of calculation**

Kalachev A., Samartsev V., Vlasova D.

*Kazan Federal University, 420008, Kremlevskaya 18, Kazan, Russia*

---

### **Abstract**

The paper is devoted to the phenomenon of a long-lived photon echo (LLPE). The graphical method of calculation of optical echo signals in multilevel systems is developed. Using developed method the formation of LLPE signals in Van Vleck paramagnets is investigated.

<http://dx.doi.org/10.1117/12.562199>

---

### **Keywords**

Graphical method of calculation, Long-lived photon echo, Van-Vleck paramagnets