

## **Temperature dependence of the spin susceptibility of layered cuprates in the pseudogap phase: Comparison with the knight shift data for the Cu(2) site in YBa<sub>2</sub>Cu<sub>4</sub>O<sub>8</sub> and Bi<sub>2</sub>Sr<sub>2</sub>CaCu<sub>2</sub>O<sub>8</sub> + x**

Andreeva E., Andreev A., Eremin M.

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

---

### **Abstract**

The temperature dependences of the Knight shift at the Cu(2) site in YBa<sub>2</sub>Cu<sub>4</sub>O<sub>8</sub> and Bi<sub>2</sub>Sr<sub>2</sub>CaCu<sub>2</sub>O<sub>8</sub> + x compounds were analyzed based on the band structure parameter extracted from photoemission data. Different scenarios for the pseudogap state are discussed, and the densities of states of quasiparticle excitations are calculated. © 2010 Allerton Press, Inc.

<http://dx.doi.org/10.3103/S1062873810100096>

---