
SEMINAR FIZIČKOG ODSJEKA

Vrijeme: utorak, 3. 5. 2011., 14:15 sati (točno)
Mjesto: Fizički odsjek, Bijenička c. 32, predavaonica F201

Role of anisotropic spin fluctuations in "115"
heavy fermion superconductors

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In this talk, I will discuss the results of NMR study in PuCoGa₅, whose superconducting transition temperature (18.5 K) is an order of magnitude higher than Ce- or Yb-based heavy fermion materials. The strongest anisotropy of spin fluctuations among the "115" heavy fermion compounds has been found in this compound in the normal state. By comparison with other 115 compounds, it will be suggested that the XY-type anisotropy of spin fluctuations plays an important role in promoting superconductivity in the 115 heavy fermion family.

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