

K_{<0.30>}MoO₃の狭帯域雑音の低温での研究

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1989 Fiscal Year Final Research Report Summary

Study of the narrow band noise at low temperatures in $K_{<0.30>}$ MoO₃

Research Project

Project/Area Number

62540230

Research Category

Grant-in-Aid for General Scientific Research (C)

Allocation Type

Single-year Grants

Research Field

固体物性

Research Institution

Kanazawa University (1989)
Iwate University (1987-1988)

Principal Investigator

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Project Period (FY)

1987 - 1989

Keywords

Transition-metal chalcogenide / Charge-density wave / Superconductivity / Non-ohmic conduction

Research Abstract

I have investigated the superconductivity transition in a layered transition-metal dichalcogenide 2H-TaS₂ by means of measuring electrical resistance down to 10 mK. We observed one which is highly sensitive to the current for the measurement of the electrical resistance. In addition the current-dependent electrical resistance is clearly observed at 1.4 and 4.2 K respectively. This current-dependency is for the first time reported on this material. The physical origin is discussed in terms of the distribution of the superconductivity transition temperature within the specimen.

All Other

All Publications (4 results)

[Publications] 堤喜登美: "Charge-Density-Wave Behavior at low Temperature in $K_{0.30}MoO_3$ " The proceeding of the 18th International Conference on Low Temperature Physics. 1. 613-614 (1989) ▼

[Publications] 堤喜登美: "Survey of Superconductivity in a layered Compound $1T-VSe_2$ " The proceeding of the second international Symposium on Superconductivity. (1990) ▼

[Publications] Kitomi Tsutsumi: "Charge-Density-Wave Behavior at Low temperature in $K_{0.30}MoO_3$ " Proc. 18th Int. Conf. on Low Temperature Physics, Part 1, 613-614, 1987. ▼

[Publications] Kitomi Tsutsumi: "Survey of Superconductivity in a Layered Compound $1T-VSe_2$ " To be published in the Proc. 2nd Int. Symposium on Superconductivity, 1990. ▼

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