

Abstract submitted
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72.20 Nz
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Suggested Title of Session
in which paper should
be placed:
Organic Conductors
Spin Density Waves

Magnetothermopower of $(\text{TMTSF})_2\text{PF}_6$ * - M. J. Burns
and P. M. Chaikin, Univ. of Cal., Los Angeles, Cal.
and E. M. Engler, IBM Research Labs, San Jose, Cal.
-- We have measured the thermopower of
 $(\text{TMTSF})_2\text{PF}_6$ in the temperature range from 20K to
2K in magnetic fields oriented along the three
principal axes up to 80 kGauss. Above the transition
there is little effect. Below the SDW transition the
thermopower with $H = 0$ shows a small anomaly in the
positive direction before becoming large and
negative. Application of a magnetic field destroys
this anomaly and makes the thermopower
considerably more negative. The thermopower is
independent of the direction of H for large fields,
however the magnetic field required for saturation
is notably larger along the direction of the
anisotropy field of the antiferromagnetic state.
*Research supported by NSF DMR 79-08560.

- Prefer Poster Session
 Prefer Standard Session
 No Preference

Signature of APS Member

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