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Thermopower and Resistivity in the Spin Density Wave- Metal co-existence regime of (TMTSF)2PF6 ARJUN NARAYANAN, PAUL CHAIKIN, Department of Physics, New York University — The organic conductor (TMTSF)2PF6 is studied in the pressure regime where it is believed to exhibit co-existence between Metallic and Spin Density Wave domains. In this pressure regime, an anisotropy in the superconductivity transition - seen previously in resistivity data on separate samples in different experimental runs - is here reproduced using both resistivity and thermopower as probes, on three slices of the same crystal measured simultaneously. The simultaneous use of these two measurements along the a, b and c axes, enables us to extract complementary information about the remarkable anisotropy in the superconducting transition and may shed light on the possibly inhomogeneous ground states in the co-existence regime of (TMTSF)2PF6.

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