A boundary value problem for a totally degenerate Partial Differential Equation

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In the framework of the Potential Theory we prove existence and uniqueness for the Perron-Wiener-Brelot solution to the Dirichlet problem related to a family of totally degenerate differential operators. We also state and prove a Wiener-type criterion and an exterior cone condition for boundary regularity.

This is a joint work in collaboration with Maria Manfredini and Mirco Piccinini.of the norm naturally associated to the differential operator.