

Nonlocal problems for singular parabolic equations with gradient nonlinearities

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In a cylindrical domain, parabolic equations with singular coefficients at nonlinear terms of the KPZ type are considered. Instead of a boundary condition on the lateral surface of the cylinder, an integral nonlocal condition is set. Depending on the relationships between the parameters of the equation and the nonlocal condition, sufficient conditions for the nonexistence of solutions or the solvability of the problem are established.

Joint work with A. A. Grebeneva