Simulation of Short Range Hermitzed atmospheric dispersionin low-wind convective conditions

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An analytical solution is obtained before using model herimitzed atmospheric dispersion in low winds (Essa et al. 2007) which is used to simulate diffusion tests during winter in weakly convective conditions at Indian Institute of Technology (IIT) Delhi.

The turbulent parametrization depended on friction velocity has been tested to estimate diffusion experiment. The model estimations have improved and compare well with observations and simple Gaussian model.