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4 1. The Physical Origins of Partial Differential Equations. The initial condition is $u(x,0) = 0$ and the boundary condition is $u(0,t) = n_0$. To solve the equation go to characteristic coordinates $\xi = x - ct$ and $\tau = t$. Then the PDE for $N = N(\xi, \tau)$ is $N_\tau = -r \sqrt{N}$. Separate variables and integrate to get $2 \sqrt{N} = -r\tau + \phi(\xi)$.

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