

# Diffusion Equation

$$(0 =) \frac{\partial v(\mathbf{x})}{\partial t} = D \Delta v(\mathbf{x}) + \rho(\mathbf{x})$$

$$\rho(\mathbf{x}) = \frac{1}{T_{MC}} \sum_i^{N_{TH}} \delta^3(\mathbf{x} - \mathbf{x}_i)$$

Boundary Condition:  $v(\mathbf{x}_B) = 0$

Arrival # of particles per unit area, during  $T_{MC}$  is:

$$F_{Th} = T_{MC} D \frac{\partial}{\partial n} v(\mathbf{x}_B) \quad \left( \frac{\partial}{\partial n} \equiv \mathbf{n} \cdot \text{grad} \right)$$

# Approximate Solution Of The Non Linear Diffusion Equation

**CH Cherryholmes**



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