Steady State:

$$-(\mathcal{N}C-\mathcal{D}C')'=0 \qquad (C=0)$$

No flux condition,

By the conservation law:

We know J=0 at $z\in\{0,H\}$ but because J'=0 it must hold for the whole interval. We can hence just solve

to get C.

Z is the normalization constant which we find by

$$Z = \int_{0}^{H} e^{xp} \left(\stackrel{\checkmark}{\Rightarrow} z \right) dz$$

$$= D/\sqrt{\left(e^{xp} \left(\stackrel{\lor}{\Rightarrow} \right) - 1 \right)}$$