Radial drift to diffusion ratio in asymmetry-induced transport

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\[
\frac{v_D}{D} = \frac{r\omega c(l\omega_R - \omega)}{l^2 v_D^2},
\]

a generalization of the Einstein relation for \( \omega \neq 0 \). For the transport produced by axially trapped particles, however, \( v_D/D \) is significantly larger than this prediction. In contrast, our experiment\(^3\) indicates that \( v_D/D \) is significantly smaller than predicted. We suspect that these discrepancies indicate the need for a non-local determination of \( v_D \) and \( D \).

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