

Table S1 – Mean squared distance errors in circular and square arenas, assuming location at the boundary.

W+	$\langle D_0^2 x, y \rangle$	$\langle D_p^2 x, y \rangle$
Circular	$3r^2/2$	$2r^2$
Square	$x^2 + y^2 + w^2/6$	$x^2 + y^2 + w^2/3$