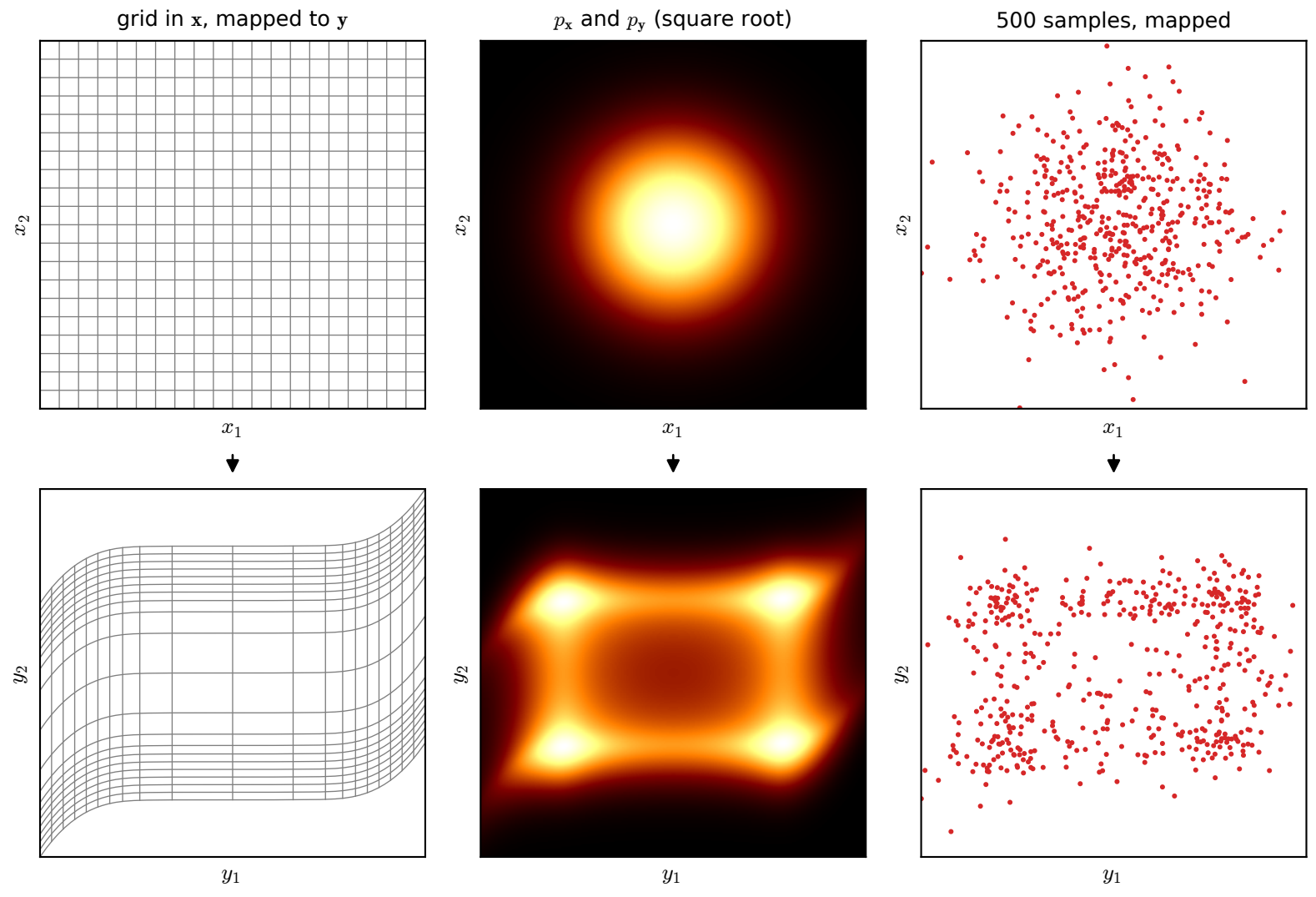

grid in $\mathbf{x}$, mapped to $\mathbf{y}$
$p_{\mathbf{x}}$ and $p_{\mathbf{y}}$ (square root)
500 samples, mapped
x_2
x_1
y_2
y_1