

The figure displays a 2D heatmap of a function  $f(x, y)$  over the domain  $x \in [-10, 10]$  and  $y \in [-10, 10]$ . The color scale ranges from 0 (dark purple) to 10 (yellow). The function is symmetric about the x-axis and shows a sharp transition from high values (yellow) near the x-axis to low values (dark purple) as the y-coordinate increases in magnitude.

