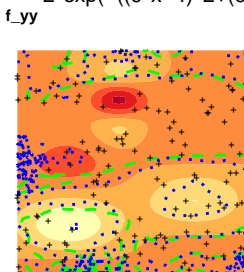
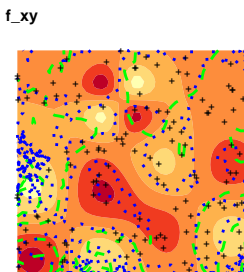
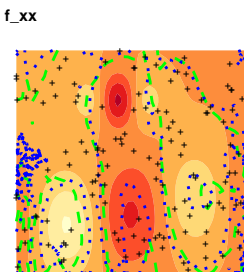
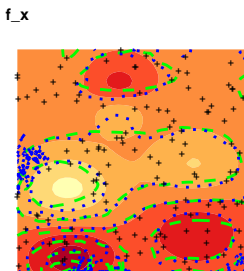
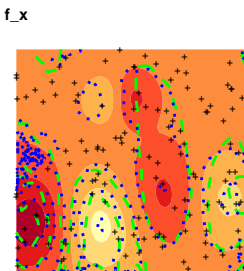


irregular data grid 121 pts
 colors = exact values
 dashed green = global bw
 dotted blue = local bw
 crosses: data points

$$f(x,y) = 0.75 \exp(-((9*x-2)^2 + (9*y-2)^2)/4) + 0.75 \exp(-((9*x+1)^2/49 + (9*y+1)/10)) + 0.5 \exp(-((9*x-7)^2 + (9*y-3)^2)/4) - 0.2 \exp(-((9*x-4)^2 + (9*y-7)^2))$$

$$f_x(x,y) = ((-60.75) \exp(-((9*x-2)^2 + (9*y-2)^2)/4) * x + 13.5 \exp(-((9*x-2)^2 + (9*y-2)^2)/4) / 2 + ((-121.5) * x \exp(-((9*x+1)^2/49 + (9*y+1)/10))) / 4 + 9 + ((-40.5) * x \exp(-((9*x-7)^2 + (9*y-3)^2)/4) / 2 + 0.324e2 * x \exp(-((9*x-4)^2 + (9*y-7)^2)) + ((-13.5) \exp(-((9*x+1)^2/49 + (9*y+1)/10))) / 49 + (31.5 \exp(-((9*x-7)^2 + (9*y-3)^2)/4)) / 2 - 0.144e2 \exp(-((9*x-4)^2 + (9*y-7)^2)))$$

$$f_y(x,y) = ((-60.75) \exp(-((9*x-2)^2 + (9*y-2)^2)/4) * y + 13.5 \exp(-((9*x-2)^2 + (9*y-2)^2)/4) / 2 + ((-40.5) * y \exp(-((9*x-7)^2 + (9*y-3)^2)/4) / 2 + 0.324e2 * y \exp(-((9*x-4)^2 + (9*y-7)^2)) + ((-6.75) \exp(-((9*x+1)^2/49 + (9*y+1)/10))) / 10 + (13.5 \exp(-((9*x-7)^2 + (9*y-3)^2)/4) / 2 - 0.25e2 \exp(-((9*x-4)^2 + (9*y-7)^2)))$$



kernel: epanechnikov
 global bandwidth 33 %
 local bandwidth 11 %

