Vtheta Comparison

h = (2\*theta(3)\*theta(1)\*)./(theta(2)\*theta(2));

theta(4) + (p(1)/(p(2)/p(3))^2) \* exp(-(r./theta(2)).^2)

X=5

f(x,y) = (k/sqrt((x-2.8915)^2+(y+0.03034)^2)) \* (1-exp(-((x-2.8915)^2+(y+0.03034)^2)/c^2))

Coefficients (with 95% confidence bounds):

c = 0.185 (0.1843, 0.1857)

k = 0.02238 (0.02232, 0.02245)

X=10

f(x,y) = (k/sqrt((x-2.834)^2+(y+0.034425)^2)) \* (1-exp(-((x-2.834)^2+(y+0.034425)^2)/c^2))

Coefficients (with 95% confidence bounds):

c = -0.2547 (-0.2554, -0.2539)

k = 0.02387 (0.02381, 0.02393)

X=15

f(x,y) = (k/sqrt((x-2.798)^2+(y+0.05823)^2)) \* (1-exp(-((x-2.798)^2+(y+0.05823)^2)/c^2))

Coefficients (with 95% confidence bounds):

c = 0.3015 (0.3006, 0.3023)

k = 0.02436 (0.0243, 0.02442)

X=20

f(x,y) = (k/sqrt((x-2.7685)^2+(y+0.08635)^2)) \* (1-exp(-((x-2.7685)^2+(y+0.08635)^2)/c^2))

Coefficients (with 95% confidence bounds):

c = -0.34 (-0.3411, -0.339)

k = 0.02461 (0.02454, 0.02468)

X=25

f(x,y) = (k/sqrt((x-2.741)^2+(y+0.1155)^2)) \* (1-exp(-((x-2.741)^2+(y+0.1155)^2)/c^2))

Coefficients (with 95% confidence bounds):

c = 0.3735 (0.3721, 0.3748)

k = 0.02473 (0.02465, 0.02481)