The first past part shows the frequency domain of the sdeal, Butterworth & Gaussian fitters & the second part shows the spathal supercontains.

The equations are:

I deal Buttermonth Gaussian 
$$-\frac{0}{2} \sqrt{2} \sqrt{2}$$
  
 $H(u,v) = \begin{cases} 1 & \text{ef } D(u,v) \leq D_0 \\ 0 & \text{ef } D(u,v) \neq D_0 \end{cases}$   $H(u,v) = 1 - e^{-\frac{1}{2}} \sqrt{2} \sqrt{2}$ 

on frequency domain =) HPF has no amplitude gain. We write it as H(u,v) = 1 - L(u,v)

Taking Fourier Tevansform to the spatial domain,

$$F(H(u,v)) = F(1) - F^{-1}(L(u,v))$$

$$F^{-1}(H(u,v)) = S(x,y) - F^{-1}(L(u,v))$$

$$h(x,y) = S(x,y) - L(x,y)$$

This Dirac delta function causes the spikes use are observing & susponsible for the anomaly.