Near and Variance of F. distribution:

$$P'r(about \ argin) = F(F') = \int_{\infty}^{\infty} F' f(F) dF$$

$$= (N) \frac{(V_1/V_1)}{B(\frac{V_1}{2}, \frac{V_2}{2})} \int_{0}^{\infty} \frac{F'}{(1+\frac{V_1}{V_1}F)} \frac{f(F)}{dF} dF$$

$$= (N) \frac{(V_1/V_1)}{B(\frac{V_1}{2}, \frac{V_2}{2})} \int_{0}^{\infty} \frac{f(F)}{(1+\frac{V_1}{V_1}F)} \frac{dF}{(V_1V_2)/2} dF$$

To evaluate the integral, Put $\frac{V_1}{V_2} = \frac{V_2}{V_1} \frac{y}{y}$. $\frac{(V_1/V_2)}{V_2} = \frac{V_2}{V_1} \frac{y}{y}$. $\frac{(V_1/V_2)}{V_1} = \frac{(V_1/V_2)}{B(\frac{V_1}{2}, \frac{V_2}{2})} \int_{0}^{\infty} \frac{(V_1/V_2)}{V_1} \frac{f(V_1/V_2)}{V_1} \frac{f(V_1/V_2)}{V_1}$

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$$= \frac{\left(\frac{V_{2}}{V_{1}}\right)^{2}}{\left(\frac{V_{1}}{V_{1}}\right)^{2}} \cdot \frac{B\left(r+\frac{V_{1}}{2}, \frac{V_{2}}{2}-r\right)}{F\left(r+\frac{V_{1}}{2}\right)} \cdot \frac{B(x_{1}y)^{2}}{F(x+y)} = \frac{\left(\frac{V_{2}}{V_{1}}\right)^{2}}{\left(\frac{V_{1}}{V_{1}}+\frac{V_{2}}{2}\right)} \cdot \frac{\left(\frac{V_{1}}{V_{2}}-r\right)}{\left(\frac{V_{1}}{V_{1}}+\frac{V_{2}}{2}-r\right)} \cdot \frac{B(x_{1}y)^{2}}{F(x+y)} = \frac{B(x_{1}y)^{2}}{F(x+y)} = \frac{B(x_{1}y)^{2}}{F(x+y)} \cdot \frac{B(x_{1}y)^{2}}{F(x+y)} = \frac{B(x_{1}y)^{2}}{F(x+y)} \cdot \frac{B(x_{1}y)^{2}}{F(x+y)} = \frac{B(x_{1}y)^{2}}{F(x+y)} \cdot \frac{B(x_{1}y)^{2}}{F(x+y)} = \frac{B(x_{1}y)^{2}}{F(x+y)} \cdot \frac{B(x_{1}y)^{2}}{F(x+y)} = \frac{B(x_{1}y)^{2}}{F(x+y)^{2}} = \frac{B(x_{1}y)^{2}$$

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$$\frac{|V_{1}|}{|V_{1}|} = \frac{|V_{1}|}{|V_{2}|} = \frac{|V_{2}|}{|V_{2}|} = \frac{|V_{2}|}{|V_{2}|}$$

$$\frac{\left(\frac{N_{2}}{2}-2\right)^{2}-\left(\frac{N_{2}}{2}-1-1\right)}{\left(\frac{N_{2}}{2}-2\right)} = \frac{\left(\frac{N_{2}}{2}-1\right)}{\left(\frac{N_{2}}{2}-2\right)}$$

$$= \frac{\left(\frac{N_{2}}{2}-2\right)\left(\frac{N_{2}}{2}-1\right)}{\left(\frac{N_{2}}{2}-2\right)\left(\frac{N_{2}}{2}-1\right)}$$
Subl. These in (2) we get,
$$\frac{\left(\frac{N_{2}}{2}-2\right)^{2}\left(\frac{N_{2}}{2}-1\right)}{\left(\frac{N_{2}}{2}-1\right)^{2}}$$

$$= \frac{\left(\frac{N_{2}}{2}-2\right)^{2}\left(\frac{N_{2}}{2}-1\right)}{\left(\frac{N_{2}}{2}-1\right)}$$

$$= \frac{\left(\frac{N_{2}}{2}-4\right)}{\left(\frac{N_{2}}{2}-1\right)} \cdot \frac{\left(\frac{N_{2}}{2}-1\right)}{\left(\frac{N_{2}}{2}-1\right)}$$

$$= \frac{\left(\frac{N_{2}}{2}-4\right)}{\left(\frac{N_{2}}{2}-1\right)} \cdot \frac{\left(\frac{N_{2}}{2}-1\right)}{\left(\frac{N_{2}}{2}-1\right)}$$

$$= \frac{\left(\frac{N_{2}}{2}-1\right)}{\left(\frac{N_{2}}{2}-1\right)} \cdot \frac{\left(\frac{N_{2}}{2}-1\right)}{\left(\frac{N_{2}}{2}-1\right)}$$

$$= \frac{\left(\frac{N_{2}}{2}-1\right)}{\left(\frac{N_{2}}{2}-1\right)}$$

$$= \frac{\left(\frac{N_{2}}{2}-1\right)}{\left(\frac{N_{2}}{2}-1\right)}$$

$$= \frac{\left(\frac{N_{2}}$$

$$\frac{1}{1/4} = \frac{V_2}{V_2^2} \left(\frac{V_1 + 2}{V_1 + 2} \right) - \left(\frac{V_2}{V_2 - 2} \right)^2, \quad V_2 > 4$$