Ite algebra

$$\lim_{\phi \to 0} \frac{\exp[(\phi + \phi)^2] P - \exp[(\phi)^4] P}{\varphi \to 0} = \lim_{\phi \to 0} \frac{\exp[(\phi)^4] \exp[(\phi)^4] P - \exp[(\phi)^4] P}{\varphi \to 0}$$

$$=\lim_{\varphi\to 0}\frac{R(J_{r}(\phi)\varphi)^{2}P}{\varphi}=\lim_{\varphi\to 0}\frac{RP^{\prime}J_{r}(\phi)\varphi}{\varphi}=-RP^{\prime}J_{r}(\phi)$$

Perturbation:

$$\lim_{\varphi \to 0} \frac{\exp(\varphi')\exp(\varphi')p - \exp(\varphi')p}{\varphi} = \lim_{\varphi \to 0} \frac{\mathbb{R}(\varphi)p}{\varphi} = \lim_{\varphi \to 0} \frac{\mathbb{R}(\varphi)p}{\varphi} = \lim_{\varphi \to 0} \frac{\mathbb{R}(\varphi)p}{\varphi}$$

$$\frac{d \ln(R,R_2)}{dR_2} = \lim_{l \to \infty} \frac{1}{\ln(R,R_2)} \ln(R,R_2) - \ln(R,R_2)$$

$$= \lim_{l \to \infty} \frac{1}{\ln(R,R_2)} + J_r(\phi) + \varphi - \ln(R,R_2)$$

$$= J_r(\phi) + \int_{l \to \infty} \ln(R,R_2) - \ln(R,R_2)$$

$$= \lim_{l \to \infty} \ln(R,R_2) - \ln(R,R_2)$$

$$= \lim_{l \to \infty} \ln(R,R_2) + \lim_{l \to \infty} \ln(R,R_2)$$

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$$=\lim_{\phi\to 0}\frac{\exp(-\phi')\exp(-\phi')}{\varphi}$$

$$= \lim_{\phi \to 0} - \frac{\phi^{\wedge} R^{-1} P}{\phi} = \lim_{\phi \to 0} \frac{(R^{-1} P)^{\wedge} \phi}{\phi} = (R^{-1} P)^{\wedge}$$

$$\frac{d \ln (R, R_2^{-1})^{\vee}}{dR_2} = \lim_{l \to \infty} \ln [R, (R_2 = \alpha p(\phi^{\prime}))^{-1}]^{\prime} - \ln (R, R_2^{-1})^{\vee}$$

$$= \lim_{l \to \infty} \ln [R, \exp(-\phi^{\prime})R_2^{-1}]^{\prime} - \ln (R, R_2^{-1})^{\vee}$$

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$$= \lim_{l \to \infty} \ln [R, R_2^{-1}]^{\prime} + \lim_{l \to \infty} (R, R_2^{-1})^{\prime}$$

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 $=-J_{r}(\phi)R_{2}, \quad \phi:=\ln(R_{1}R_{2}^{-1})^{V}$