

$$\det(I + \varepsilon A) = 1 + \text{tr}(A)\varepsilon + \dots$$

Can write $\det(z - 2u^{1/2}\Lambda)$

$$= \det$$

Can write the ratio as:

$$e^{-(V+u)/2\sigma} \left(1 - O\left(v^{-1/2} e^{-v/2K}\right) \right)$$

$$u^{\frac{n-D-2}{2}} e^{-u/2}$$

$$b_{D-1}(z) \propto \text{tr}(\Lambda^{-1}z)$$

how to calculate

$$\boxed{z - 2u^{1/2}}$$