Graphical D-PeGDO

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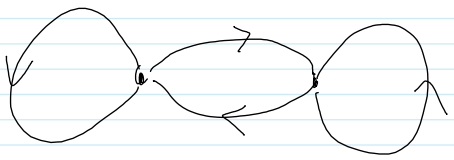
$$e^{\alpha x^2 y}e^{\beta xy}\Big|_{x=y=0} = \sum_{n=0}^{\infty}\frac{\alpha^n\beta^n}{(n!)^2}(n!)^2 = \frac{1}{1-\alpha\beta}$$



$$\sum_{n=1}^{\infty}\frac{x^n}{n} = -\log(1-x)$$

$$\exp\sum\frac{1}{n}\operatorname{tr}A^n = \det(I-A)^{-1}$$

$$\sum\operatorname{tr}(\Lambda^n A) = \det(I+A)$$

$$\Rightarrow \quad \exp\left(\sum\frac{(-1)^n}{n}\operatorname{tr}A^n\right)\left(\sum\operatorname{tr}(\Lambda^n A)\right) = 1$$