$$d\mu\left(t_1 \cdot\cdot t_r\right) = \prod_{i}^{1|r} \mathfrak{e}^{-t_i^2/2} \prod_{i<j}^{1|r} \overset{a}{\overline{t_i - t_j}} = \mathfrak{e}^{-aU}$$

$$U = \frac{1}{2a} \sum_{i}^{1|r} t_i^2 - \sum_{i<j}^{1|r} \log \overline{t_i - t_j}$$

$$dt_1 \cdot\cdot dt_r \; \mathfrak{e}^{-t_i^2/2} \prod_{i<j}^{1|r} \overset{a}{\overline{t_i - t_j}}$$

$$\frac{1}{\sqrt{2\pi}^n} \int_{\mathbb{R}^r}^{dt_1 \cdot\cdot dt_r} \prod_{i}^{1|r} \mathfrak{e}^{-t_i^2/2} \prod_{i<j}^{1|r} \overset{a}{\overline{t_i - t_j}} = \prod_{j}^{1|r} \frac{\Gamma_{1+ja/2}}{1+a/2}$$

$$\frac{1}{(2\pi)^r} \int_{dt_1 \cdot\cdot dt_r}^{-\pi \overset{r}{|} \pi} \overset{a}{\overline{\mathfrak{e}^{it_i} - \mathfrak{e}^{it_j}}} = \frac{\Gamma_{1+na/2}}{\Gamma_{1+a/2}^n}$$

$$\int_{dt}^{0 \overset{r}{|} 1} {}^{t}\urcorner \, \overset{\zeta-1}{\overline{t_1 \cdot\cdot t_r}} = \left(\frac{\pi}{\sin \pi\zeta}\right)^r \int_{du_1 \cdot\cdot du_r}^{\mathbb{T}^r} {}^{-u}\urcorner \, \overset{\zeta}{\overline{u_1 \cdot\cdot u_r}}$$

$$u = \mathfrak{e}^{i\vartheta}$$

$$du = idt\,\mathfrak{e}^{i\vartheta} = iud\vartheta$$

$$\frac{du}{2\pi iu} = d\vartheta$$

$$\frac{1}{\sqrt{2\pi}^n} \int_{dx_1 \cdot\cdot dx_n}^{\mathbb{R}^n} \mathfrak{e}^{-x \bowtie x/2} \prod_{v} \overset{a}{\overline{x \bowtie v}} = \prod_{v} \frac{\Gamma_{1+d_v a/2}}{\Gamma_{a/2}}$$