

$$\begin{array}{ccc}
\mathbb{C} = \mathbb{R} + i\mathbb{R} & & \\
\downarrow & \epsilon \text{ diff} & \\
& & \\
& & \mathbb{C}^\times = \mathbb{R}_{>} \mathbb{T} \\
& & \\
r^{+is}\epsilon = r e^{is}e = r e ({}^s\mathfrak{c} + i {}^s\mathfrak{s}) & & \\
\text{Ker } (\epsilon) = 2i\pi\mathbb{Z} = \frac{2\pi in}{\mathbb{Z} \ni n} & & \\
t = r + is \in \text{Ker } (\epsilon) \Rightarrow 1 = {}^t\epsilon = \Rightarrow {}^t\epsilon = {}^{\Re t}\epsilon = r e \Rightarrow r = 0 & & \\
1 = {}^{is}\epsilon = {}^s\mathfrak{c} + i {}^s\mathfrak{s} \Rightarrow \begin{cases} 1 = {}^s\mathfrak{c} \\ 0 = {}^s\mathfrak{s} \end{cases} \Rightarrow s = 2in\pi & & \\
n \in \mathbb{Z} & & \\
\epsilon = id & & \\
\uparrow & & \\
i\mathbb{L} & \xrightarrow{\epsilon} & \mathbb{R}\mathbb{D}_\infty \text{ abel} \\
\downarrow & & \\
i\overline{\mathbb{L}} & \xrightarrow{=} & i\mathbb{L} \\
i\mathbb{L} \xrightarrow{\sim} \mathbb{T} \nabla_0 \mathbb{L}^\sharp = \mathbb{T} \nabla_0 \mathbb{L} \triangleright \mathbb{R} & & \\
\downarrow & & \\
i\mathbb{R}^d & \xrightarrow{\epsilon} & \mathbb{R}\mathbb{D}_\infty \text{ abel} \\
\downarrow & & \\
i\overline{\mathbb{R}}^d & \xrightarrow{=} & i\mathbb{R}^d
\end{array}$$

$$\nu_{i\mathbb{L}^{\cdot}}=\frac{d\mathbb{L}^1\cdots d\mathbb{L}^d}{\left(2\pi\right)^d}=\frac{d\mathbb{L}^1}{2\pi}\cdots \frac{d\mathbb{L}^d}{2\pi}$$

$$i\mathbb{R}^d\xrightarrow{\hspace{2cm}\simeq\hspace{2cm}}\mathbb{T}\overline{\nabla}_{_0\overset{d}{\mathbb{R}}}=\mathbb{T}\overline{\nabla}\widehat{\mathbb{R}^d}_{\Delta\mathbb{R}}$$

$$\mathsf{L}^{\cdot}\xrightarrow{\hspace{2cm}\mathfrak{z}\hspace{2cm}}\mathfrak{e}\mathsf{L}^{\cdot}\mathsf{L}\,\mathfrak{z}\,\mathsf{L}$$

$$\nu_{\mathsf{L}^{\cdot}}=d\mathsf{L}^1\cdots d\mathsf{L}^d\in\mathbb{R}_+\overline{\nabla}\mathbb{R}^d$$

$$\mathbb{R}^d\xrightarrow{\hspace{2cm}\simeq\hspace{2cm}}\mathbb{T}\overline{\nabla}_{_0\overset{d}{\mathbb{R}}}$$

$$\mathsf{L}^{\cdot}\xrightarrow{\hspace{2cm}\mathfrak{z}\hspace{2cm}}\mathfrak{e}2\pi i\mathsf{L}^{\cdot}\underbrace{\log\psi}_{\mathfrak{z}\,\psi}\mathsf{L}\,\mathfrak{z}\,\mathsf{L}$$

$$i\mathbb{Q}_p^d\xrightarrow{\hspace{2cm}\simeq\hspace{2cm}}\mathbb{T}\overline{\nabla}_{_d\mathbb{Q}_p}$$

$$\mathsf{L}^{\cdot}\xrightarrow{\hspace{2cm}\mathfrak{z}\hspace{2cm}}\mathfrak{e}2\pi i\mathrm{tr}_p\mathsf{L}^{\cdot}\mathsf{L}\,\mathfrak{z}\,\mathsf{L}$$

$$\begin{array}{ccc} i\mathbb{R}^d \\ \downarrow \mathfrak{e} \text{ diff} \\ \mathbb{T}^d \end{array}$$

$${}^{is}\mathfrak{e}={}^{is}e={}^s\mathfrak{c}+i{}^s\mathfrak{s}$$

$$\mathrm{Ker}~(\mathfrak{e})=2i\pi\mathbb{Z}^d=\frac{2\pi in}{\mathbb{Z}^{\mathfrak{l}}}\in$$

$${}^{is}\in\mathrm{Ker}~(\mathfrak{e})\Rightarrow 1={}^{is}\mathfrak{e}={}^s\mathfrak{c}+i{}^s\mathfrak{s}\Rightarrow 1={}^s\mathfrak{c}$$

$$0={}^s\mathfrak{s}\Rightarrow s=2in\pi$$

$$n\in\mathbb{Z}^d$$