$$X \lrcorner_{\Cup} X^{\mathbb{C}}$$

$$x \in X \to {}_{\Cup}X^{\mathbb{C}} \ni \overbrace{x+ie}^{-1}\underbrace{x-ie} = {}^{x}\begin{array}{c|c} i & -i \\ \hline 1 & 1 \end{array}$$

$$e - {}^{x}\begin{array}{c|c} i & -i \\ \hline 1 & 1 \end{array} = 2\,\overbrace{e-ix}^{-1}$$

$${}^{e\,-\,x}\mathfrak{m}\Delta = 2^{r}\,{}^{e\,-\,ix}\Delta^{-1}$$

$${}^{e\,-\,ix}\Delta\ {}^{e\,+\,ix}\Delta = {}^{(e-ix)\,(e+ix)}\Delta = {}^{e\,+\,x^{2}}\Delta$$

$$X_{\underset{0}{\triangle}}\mathbb{C} \leftarrow {}_{\Cup}X^{\mathbb{C}}_{\underset{0}{\triangle}}\mathbb{C}$$

$$\Gamma^{X}_{d/r}\int_{du}^{{}_{\Cup}X^{\mathbb{C}}} {}^{u}\mathfrak{r} = (4\pi)^{d}\int_{dx}^{X} \overbrace{x+ie}^{-1}\underbrace{x-ie}\mathfrak{r}\ {}^{e\,+\,x^{2}}\Delta^{-d/r}$$

$$\Gamma^{X}_{d/r}\int_{du}^{{}_{\Cup}X^{\mathbb{C}}} {}^{u}\mathfrak{r}\ {}^{e\,-\,u}\overline{\Delta}^{-2d/r} = \pi^{d}\int_{dx}^{X} {}^{x}\overbrace{\begin{array}{c|c} i & -i \\ \hline 1 & 1 \end{array} \ltimes \mathfrak{r}}$$

$$\text{LHS} = \pi^{d}\int_{dx}^{X} {}^{x}\overbrace{\begin{array}{c|c} i & -i \\ \hline 1 & 1 \end{array} \ltimes \mathfrak{r}}\ {}^{e\,-\,{}^{x}\begin{array}{c|c} i & -i \\ \hline 1 & 1 \end{array}}\overline{\Delta}^{2d/r}\ {}^{e\,+\,x^{2}}\Delta^{-d/r} = \text{RHS}$$

$$dx \rtimes \begin{array}{c|c} i & -i \\ \hline 1 & 1 \end{array} = \frac{\Gamma^{X}_{d/r}}{\pi^{d}}\,{}^{e\,-\,u}\overline{\Delta}^{-2d/r}\,du$$

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