

$$\frac{?}{\pi}$$

$$1412\mathcal{B}$$

$$\begin{array}{l} S_{ij} \\ S_{ij}x=(x_1,\ldots,x_{i-1},x_j,x_{i+1},\ldots,x_{j-1},x_i,x_{j+1},\ldots,x_L). \end{array}$$

$$\begin{array}{l} (x,\circ) \\ x\equiv \\ (x_1,\ldots,x_L) \\ S_x\equiv \\ \{S_{ij}x: \\ i< \\ j\} \\ Q \\ \equiv \\ i<j\sum p_{ij}(x)I_A(S_{ij}x) \\ x\in \\ \Omega^L \\ A \\ \int_A\alpha_{swap}(x,y)\mathcal{Q}(x,\mathrm{d}\,y)+ \\ r(x)\mathcal{I}(x,A) \\ r(x)= \\ 1- \\ \Omega^L\int\alpha_{swap}(x,y)\mathcal{Q}(x,\mathrm{d}\,y) \\ \mathcal{Q} \\ \int_A\alpha_{swap}(x,y)\mathcal{Q}(x,\mathrm{d}\,y)= \\ i<j\sum p_{ij}(x)\int\alpha_{swap}(x,y)I_A(y)\delta_{S_{ij}x}(\mathrm{d}\,y) \\ \equiv \\ i<j\sum p_{ij}(x)\alpha_{swap}(x,S_{ij}x)I_A(S_{ij}x), \\ \sum p_{ij}(x)\alpha_{swap}(x,S_{ij}x)I_A(S_{ij}x)+ \\ \Big(1- \\ i<j\sum p_{ij}(x)\alpha_{swap}(x,S_{ij}x)\Big)\mathcal{I}(x,A), \end{array}$$

$$\alpha_{swap}(x,y)=\frac{\pi_\beta(\mathrm{d}\,y)\mathcal{Q}(y,\mathrm{d}\,x)}{\pi_\beta(\mathrm{d}\,x)\mathcal{Q}(x,\mathrm{d}\,y)}\wedge 1$$

$$\begin{array}{l} \mu(\mathrm{d}\,x,\mathrm{d}\,y)\equiv \\ \pi(\mathrm{d}\,x)\mathcal{Q}(x,\mathrm{d}\,y) \\ \mu \\ R(x,y)= \\ (y,x)^1 \\ \alpha_{swap}\equiv \\ \frac{\mathrm{d}\,\mu\circ R^{-1}}{\mathrm{d}\,\mu} \end{array}$$

$$\alpha_{swap}(x,y)=\frac{\pi_\beta(y)\mathcal{Q}(y,x)}{\pi_\beta(x)\mathcal{Q}(x,y)}\wedge 1.$$

$$\begin{array}{l} y\in \\ S_{\pi_x} \\ Q(x,S_{ij}x)= \\ p_{ij}(x) \\ Q(S_{ij}x,x)= \\ p_{ij}(S_{ij}x) \\ 2 \end{array}$$

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