

$${}^x\overline{q \ltimes \gamma} = {}^{x^2}\gamma$$

$${}^x\overline{\partial_u q \ltimes \gamma} = u \, {}^x\overline{q \ltimes \gamma} = u \, {}^x q \, {}^{x^2}\gamma = \overline{u * x} \, {}^{x^2}\gamma = {}^{x^2}\overline{\partial_{u * x} \gamma}$$

$$\partial_u \partial_v q \ltimes \gamma = \partial_u \overline{v * x q \ltimes \gamma} = \overline{u * v} \overline{q \ltimes \gamma} + \overline{u * x} \overline{v * x} \overline{q \ltimes \gamma}$$

$$x^2 \lrcorner a = x \lrcorner (x * a) = x \lrcorner u_i u_i \lrcorner (x * a) = x \lrcorner u_i \left(u_i * a \right) \lrcorner x$$

$$\partial_{u_i} \partial_{u_i * a}$$

$$\partial_{u_i} \partial_{u_i * a} \overline{q \ltimes \gamma} = \overline{u_i * (u_i * a)} \overline{q \ltimes \gamma} + \overline{u_i * x} \overline{(u_i * a) * x} \overline{q \ltimes \gamma}$$

$$\overline{e+x}^{-1} \lrcorner u = \frac{\partial_u \Delta(e+x)}{\Delta(e+x)}$$

$$\sum_{j_1} \frac{\overline{u_i * (u_i * a)} \lrcorner b^{j_1}}{y \lrcorner b^{j_1}} = \sum_{j_1} \frac{a \lrcorner b^{j_1}}{y \lrcorner b^{j_1}}$$

$$\sum_{j_1 \neq j_2} \frac{\overline{u_i * x} \lrcorner b^{j_1}}{y \lrcorner b^{j_1}} \frac{\overline{(u_i * a) * x} \lrcorner b^{j_2}}{y \lrcorner b^{j_2}} = \sum_{j_1 \neq j_2} \frac{\overline{x * b^{j_1} \lrcorner a * x * b^{j_2}}}{\underbrace{y \lrcorner b^{j_1}} \underbrace{y \lrcorner b^{j_2}}}$$