$$X_c^{1/2} \ni v \mapsto {}^v\!\sqcap \in \text{ Aut } X$$

$$_i\llcorner \text{ Basis von } X_c^{0|1} \Rightarrow {}^v\!\sqcap_i = {}_i\llcorner\, {}^v\!\sqcap \text{ Basis von } X_v^{0|1}$$

$${}^v\!\sqcap^1_{..} \Big| \cdot \Big| {}^v\!\sqcap^p_{..} \Big| {}^v\!\pitchfork^1_{..} \Big| \cdot \Big| {}^v\!\pitchfork^q_{..} = {}^v\!\sqcap^1_1 \cdot {}^v\!\sqcap^{p}_1 {}^v\!\pitchfork_{1\,1} \cdot {}^v\!\pitchfork_{q\,1} \Big| \cdots\cdots \Big| {}^v\!\sqcap^1_n \cdot {}^v\!\sqcap^{p}_n {}^v\!\pitchfork_{1\,n} \cdot {}^v\!\pitchfork_{q\,n}$$

$$\det \frac{{}^v\!\sqcap^1_{..}}{\frac{\cdot}{\frac{{}^v\!\sqcap^p_{..}}{\frac{{}^v\!\pitchfork^1_{..}}{\frac{\cdot}{{}^v\!\pitchfork^q_{..}}}}}} = \sum_{1 \leqslant \ell_1 < \cdot\cdot < \ell_q \leqslant n} (-1)^{k|\ell} \det \begin{array}{c|c|c} {}^v\!\sqcap^1_{k_1} & \cdot & {}^v\!\sqcap^1_{k_p} \\ \hline \cdot & \cdot & \cdot \\ \hline {}^v\!\sqcap^p_{k_1} & \cdot & {}^v\!\sqcap^p_{k_p} \end{array} \det \begin{array}{c|c|c} {}^v\!\pitchfork_{1\ell_1} & \cdot & {}^v\!\pitchfork_{1\ell_q} \\ \hline \cdot & \cdot & \cdot \\ \hline {}^v\!\pitchfork_{q\ell_1} & \cdot & {}^v\!\pitchfork_{q\ell_q} \end{array}$$

$${}_-\!\sqcap_i^{..} = {}_i\llcorner\, {}_-\!\sqcap^{..}$$

$$\partial_\xi^i \, \mathfrak{e}^{x\xi} = x^i \, \mathfrak{e}^{x\xi}$$

$${}_-\!\sqcap^{..}_{.} \; \partial_\xi^{.} \, \mathfrak{e}^{x\xi} = {}_-\!\sqcap^{..}_i \; \partial_\xi^i \, \mathfrak{e}^{x\xi} = {}_i\llcorner\, {}_-\!\sqcap^{..} \; x^i \, \mathfrak{e}^{x\xi} = \underbrace{x^i{}_i\llcorner}_{=x} \; {}_-\!\sqcap^{..} \; \mathfrak{e}^{x\xi} = x \; {}_-\!\sqcap^{..} \; \mathfrak{e}^{x\xi}$$

$$\det \frac{{}^v\!\sqcap^{..}_1}{\frac{\cdot}{\frac{{}^v\!\sqcap^{..}_p}{\frac{{}_-\!\sqcap^{..}_{.}\partial_\xi^{.}}{\frac{\cdot}{{}_-\!\sqcap^{..}_{.}\partial_\xi^{.}}}}}} \mathfrak{e}^{x\xi} = \det \frac{{}^v\!\sqcap^{..}_1}{\frac{\cdot}{\frac{{}^v\!\sqcap^{..}_p}{\frac{x\,{}_-\!\sqcap^{..}}{\frac{\cdot}{x\,{}_-\!\sqcap^{..}}}}}} \mathfrak{e}^{x\xi}$$

$$x \; {}_-\!\sqcap^{..} = x \underbrace{\nu^j_- \, {}^v\!\dashv^{..}_j} = \nu^j_- \; \underbrace{x\, {}^v\!\dashv^{..}_j}$$

$${}^v\!\dashv^{..}_{j\,i} = {}^v\overbrace{\circlearrowleft_{j-}\sqcap^{..}_i} = \frac{\partial \sqcap^{..}_i}{\partial v^j} = \circlearrowleft_{j-} \underbrace{{}_i\llcorner\, {}^v\!\sqcap^{..}} = {}_i\llcorner \; \underbrace{\circlearrowleft_{j-}\, {}^v\!\sqcap^{..}} = {}_i\llcorner \; \underbrace{{}_j\mathfrak{Z}\, {}^v\!\sqcap^{..}_-}_{\in\, \mathfrak{g}(X)}$$

$${}^v\!\dashv^{..}_{j\,.} \; \partial_\xi^{.} \, \mathfrak{e}^{x\xi} = {}^v\!\dashv^{..}_{j\,i} \; \partial_\xi^i \, \mathfrak{e}^{x\xi} = {}_i\llcorner \; \underbrace{{}_j\mathfrak{Z}\, {}^v\!\sqcap^{..}_-} x^i \, \mathfrak{e}^{x\xi} = \underbrace{x^i{}_i\llcorner}_{=x} \underbrace{{}_j\mathfrak{Z}\, {}^v\!\sqcap^{..}_-} \mathfrak{e}^{x\xi} = x \underbrace{{}_j\mathfrak{Z}\, {}^v\!\sqcap^{..}_-} \mathfrak{e}^{x\xi}$$

$$\det \begin{array}{c} {}^{v}■_{1} \\ \hline \cdot \\ \hline {}^{v}■_{q} \\ \hline ■\cdot{}^{v}■ \\ \hline \cdot \\ \hline ■\cdot{}^{v}■ \end{array} = ■^{1} \ddot{■}\ ■^{q} \det \begin{array}{c} {}^{v}■_{1} \\ \hline \cdot \\ \hline {}^{v}■_{q} \\ \hline {}^{v}_{1}■ \\ \hline \cdot \\ \hline {}^{v}_{q}■ \end{array}$$

$$\det \begin{array}{c} ■\cdot{}^{v}■ \\ \hline \cdot \\ \hline ■\cdot{}^{v}■ \end{array} = \det\ ■^{1} \Big| \cdot \Big| ■^{q} \ \det \begin{array}{c} {}^{v}_{1}■ \\ \hline \cdot \\ \hline {}^{v}_{q}■ \end{array} = ■^{1} \ddot{■}\ ■^{q} \det \begin{array}{c} {}^{v}_{1}■ \\ \hline \cdot \\ \hline {}^{v}_{q}■ \end{array}$$

$$\mathsf{L} \Big| \mathsf{t}\ {}^{x}T_{v} = \mathsf{L}\ {}^{v}■ + x\mathsf{t}\ {}^{v}■$$

$${}^{x}T_{v} = \begin{array}{c} {}_{1}■\,{}^{v}■ \\ \hline \cdot \\ \hline {}_{p}■\,{}^{v}■ \\ \hline x\,{}_{1}■\,{}^{v}■ \\ \hline \cdot \\ \hline x\,{}_{q}■\,{}^{v}■ \end{array}$$

$$\mathsf{L}^{1} \Big| \cdot \Big| \mathsf{L}^{p} \Big| \mathsf{t}^{1} \Big| \cdot \Big| \mathsf{t}^{q}\ T_{x} = \mathsf{L} \Big| \mathsf{t}\ T_{x} = \mathsf{L}\ {}^{v}■ + x\mathsf{t}\ {}^{v}■$$

$$= \mathsf{L}^{i}\ {}_{i}■\,{}^{v}■ + \mathsf{t}^{j} x\ {}_{j}■\,{}^{v}■ = \mathsf{L}^{1} \Big| \cdot \Big| \mathsf{L}^{p} \Big| \mathsf{t}^{1} \Big| \cdot \Big| \mathsf{t}^{q} \begin{array}{c} {}_{1}■\,{}^{v}■ \\ \hline \cdot \\ \hline {}_{p}■\,{}^{v}■ \\ \hline x\,{}_{1}■\,{}^{v}■ \\ \hline \cdot \\ \hline x\,{}_{q}■\,{}^{v}■ \end{array}$$

$$\det \begin{array}{c} {}^{v}\cdot_{1} \\ \hline \cdot \\ \hline {}^{v}\cdot_{p} \\ \hline x_{\_}\cdot \\ \hline \cdot \\ \hline x_{\_}\cdot \end{array} = \cdot^{1} \; \cdot \; \cdot^{q} \; \det {}^{x}T_{v}$$

$${}^{v}_{j}\cdot = x\,{}^{v}_{j}\cdot = x\;{}_{j}\cdot\;{}_{\_}^{v}\cdot$$

$$\mathrm{LHS} = \cdot^{1} \; \cdot \; \cdot^{q} \; \det \begin{array}{c} {}^{v}\cdot_{1} \\ \hline \cdot \\ \hline {}^{v}\cdot_{p} \\ \hline x_{1}\cdot \\ \hline \cdot \\ \hline x_{q}\cdot \end{array} = \cdot^{1} \; \cdot \; \cdot^{q} \; \det \begin{array}{c} {}_{1}\cdot^{v}\cdot \\ \hline \cdot \\ \hline {}_{p}\cdot^{v}\cdot \\ \hline x_{1}\cdot_{\_}^{v}\cdot \\ \hline \cdot \\ \hline x_{q}\cdot_{\_}^{v}\cdot \end{array} = \mathrm{RHS}$$