# mielke-geometrodynamics: equation evidence

## Display equations

| Identifier | Page | Conf. | LaTeX source | Rendered | Image |
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| mielke-geometrodynamics_EQ0966 (14.2.7) **[conf 0.024]** | 313 | ■ 0.024 | \begin{aligned} d \hat{s}^{2} & =\frac{1}{4+K} \operatorname{Tr}\left(\hat{\vartheta} \otimes_{s} \hat{ \vartheta}^{T}\right)=\hat{g}_{A B} \hat{\vartheta}^{A} \otimes_{s} \hat{\vartheta}^{B} ; \quad A, B,=0, \ldots, 3+K \\ & =\frac{1}{4+K} \operatorname{Tr}\left[\begin{array}{l\|l} \vartheta \otimes \vartheta+\hat{ \ell}^{2} \omega \otimes \omega & \hat{\ell} \omega \otimes \stackrel{\circ}{\vartheta} \\ \hline \hat{\ell} \vartheta \otimes \omega & \ddots \\ \circ & \vartheta \otimes \end{array}\right] . \end{aligned} | $d\hat{s}^2 = \frac{1}{4+K}\operatorname{Tr}\left(\hat{\vartheta}\otimes_s \hat{\vartheta}^T\right) = \hat{g}_{AB}\hat{\vartheta}^A \otimes_s \hat{\vartheta}^B; \quad A, B, = 0, \ldots, 3+K$ $= \frac{1}{4+K}\operatorname{Tr}\left[\begin{array}{c\|c} \vartheta\otimes\vartheta + \hat{\ell}^2\omega\otimes\omega & \hat{\ell}\omega\otimes\overset{\circ}{\vartheta} \\ \hline \hat{\ell}\vartheta\otimes\omega & \ddots \\ \circ & \vartheta\otimes \end{array}\right].$ | $d\hat{s}^2 = \frac{1}{4+K}\operatorname{Tr}(\hat{\vartheta}\otimes_s \hat{\vartheta}^{\mathrm{T}}) = \hat{g}_{AB}\hat{\vartheta}^A \otimes_s \hat{\vartheta}^B; \quad A, B, = 0, \ldots, 3+K$ $= \frac{1}{4+K}\operatorname{Tr}\left[\begin{array}{c\|c} \vartheta\otimes\vartheta + \hat{\ell}^2\omega\otimes\omega & \hat{\ell}\omega\otimes\overset{\circ}{\vartheta} \\ \hline \hat{\ell}\overset{\circ}{\vartheta}\otimes\omega & \overset{\circ}{\vartheta}\otimes\overset{\circ}{\vartheta} \end{array}\right].$ (1. |
| mielke-geometrodynamics_EQ0403 (6.4.23) **[conf 0.028]** | 134 | ■ 0.028 | \Psi_{\\|}(\vartheta)=\exp \left(-\int_{M_{3}} \stackrel{(\pm)}{C}_{\mathrm{TT}}\right)=\exp \left(\frac{-1}{2 \ell^{2}} \int_{M_{3}}\left[\stackrel{*}{+}_{\underline{\vartheta}_{B}} \wedge \stackrel{*}{T}^{B}_{\bar{T}}\right]\right) | $\Psi_{\|}(\vartheta) = \exp\left(-\int_{M_3} \overset{(\pm)}{C}_{\mathrm{TT}}\right) = \exp\left(\frac{-1}{2\ell^2}\int_{M_3}\left[\overset{*}{+}_{\underline{\vartheta}_B} \wedge \overset{*}{T}{}^B_{\bar{T}}\right]\right)$ | $\Psi_{\|}(\vartheta) = \exp\left(-\int_{M_3} \overset{(\pm)}{\underline{C}}_{\mathrm{TT}}\right) = \exp\left(\frac{-1}{2\ell^2}\int_{M_3}\left[\overset{*}{\underline{+}}\underline{\vartheta}_B \wedge \overset{*}{\underline{+}}\overset{(\pm)}{\underline{T}}{}^B\right]\right)$ |
| mielke-geometrodynamics_EQ0850 (12.3.3) **[conf 0.032]** | 275 | ■ 0.032 | \begin{aligned} \not D^{2} & =-\frac{1}{2} \gamma^{ \alpha} \gamma^{\beta}\left(\left\{D_{\alpha}^{\{ \}}, D_{\beta}^{\{ \}}\right\}+\left[D_{\alpha}^{\{ \}}, D_{\beta}^{\{ \}}\right]\right)-2 i m \not D^{\{ \}} \\ & -\frac{i}{4} \gamma_{5}\left(\not D^{\{ } \nexists \mathscr{A}\right)+\frac{1}{2} \gamma_{5} \sigma^{\alpha \beta} \mathscr{A}_{\alpha} D_{\beta}^{ \{ \}}+m^{2}-\frac{1}{2} m \gamma_{5} \not \mathscr{A}-\frac{1}{16} \nVdash \mathscr{A} \\ & \cong-\square-\frac{1}{8} \sigma^{\alpha \beta} R_{\alpha \beta \mu \nu}^{\{ } \sigma^{\mu \nu} \\ & -\frac{i}{4} \gamma_{5}\left(\not D^{\{ } \not b\right)+\frac{1}{2} \gamma_{5} \sigma^{\alpha \beta} \mathscr{A}_{\alpha} D_{\beta}^{ \{ \}}-\frac{1}{16} \mathscr{A}_{\alpha} \mathscr{A}^{ \alpha}-m^{2} \end{aligned} | $\not D^2 = -\frac{1}{2}\gamma^\alpha\gamma^\beta\left(\left\{D_\alpha^{\{\}}, D_\beta^{\{\}}\right\} + \left[D_\alpha^{\{\}}, D_\beta^{\{\}}\right]\right) - 2im\not D^{\{\}}$ $- \frac{i}{4}\gamma_5\left(\not D^{\{}\nexists\mathscr{A}\right) + \frac{1}{2}\gamma_5\sigma^{\alpha\beta}\mathscr{A}_\alpha D_\beta^{\{\}} + m^2 - \frac{1}{2}m\gamma_5\not\mathscr{A} - \frac{1}{16}\nVdash\mathscr{A}$ $\cong -\square - \frac{1}{8}\sigma^{\alpha\beta}R^{\{}_{\alpha\beta\mu\nu}\sigma^{\mu\nu}$ $- \frac{i}{4}\gamma_5\left(\not D^{\{}\not b\right) + \frac{1}{2}\gamma_5\sigma^{\alpha\beta}\mathscr{A}_\alpha D_\beta^{\{\}} - \frac{1}{16}\mathscr{A}_\alpha\mathscr{A}^\alpha - m^2$ | $\not D^2 = -\frac{1}{2}\gamma^\alpha\gamma^\beta\left(\{D_\alpha^{\{\}}, D_\beta^{\{\}}\} + [D_\alpha^{\{\}}, D_\beta^{\{\}}]\right) - 2im\not D^{\{\}}$ $- \frac{i}{4}\gamma_5(\not D^{\{\}}\not{\mathscr{A}}) + \frac{1}{2}\gamma_5\sigma^{\alpha\beta}\mathscr{A}_\alpha D_\beta^{\{\}} + m^2 - \frac{1}{2}m\gamma_5\not{\mathscr{A}} - \frac{1}{16}\not{\mathscr{A}}\not{\mathscr{A}}$ $\cong -\square - \frac{1}{8}\sigma^{\alpha\beta}R^{\{\}}_{\alpha\beta\mu\nu}\sigma^{\mu\nu}$ $- \frac{i}{4}\gamma_5(\not D^{\{\}}\not{\mathscr{A}}) + \frac{1}{2}\gamma_5\sigma^{\alpha\beta}\mathscr{A}_\alpha D_\beta^{\{\}} - \frac{1}{16}\mathscr{A}_\alpha\mathscr{A}^\alpha - m^2$ |
| mielke-geometrodynamics_EQ0402 (6.4.22) **[conf 0.042]** | 134 | ■ 0.042 | \begin{array}{ll} q: & \underline{*}^{\vartheta^{ \beta}} \Psi_{\\|}(\vartheta)=\underline{*}^{\prime} \underline{\vartheta}^{\beta} \Psi_{\\|}(\vartheta), \\ \stackrel{ \pm}{p}: & \stackrel{*}{+}_{\underline{\Pi}} \Psi_{\\|}(\vartheta)=-i \ell^{2} \frac{\delta}{\delta \underline{*}_{\alpha}} \Psi_{\\|}(\vartheta), \end{array} | $q: \quad \underline{*}^{\vartheta^\beta}\Psi_{\|}(\vartheta) = \underline{*}'\underline{\vartheta}^\beta\Psi_{\|}(\vartheta),$ $\overset{\pm}{p}: \quad \overset{*}{+}_{\underline{\Pi}}\Psi_{\|}(\vartheta) = -i\ell^2\frac{\delta}{\delta\underline{*}_\alpha}\Psi_{\|}(\vartheta),$ | $q: \quad \overset{*}{\underline{\vartheta}}{}^\beta\,\Psi_{\|}(\vartheta) = \overset{*}{\underline{\vartheta}}{}^\beta\,\Psi_{\|}(\vartheta),$ $\overset{\pm}{p}: \quad \overset{*}{\underline{\Pi}}{}^{(\pm)}_\alpha\,\Psi_{\|}(\vartheta) = -i\ell^2\frac{\delta}{\delta\overset{*}{\underline{\vartheta}}_\alpha}\Psi_{\|}(\vartheta),$ |

| Identifier | Page | Conf. | LaTeX source | Rendered | Image |
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| mielke-geometrodynamics_EQ0293 (4.5.4) **[conf 0.052]** | 101 | ■ 0.052 | `\xi \downharpoonleft L \equiv\left(\xi \downharpoonleft \vartheta^{\alpha}\right) \wedge \frac{\partial L}{ \partial \vartheta^{\alpha}}+(\xi \downharpoonleft \Psi) \wedge \frac{\partial L}{\partial \Psi}+(\xi \downharpoonleft D \Psi) \wedge \frac{\partial L}{ \partial D \Psi} .` | $\xi \downharpoonleft L \equiv (\xi \downharpoonleft \vartheta^{\alpha}) \wedge \frac{\partial L}{ \partial \vartheta^{\alpha}}+(\xi \downharpoonleft \Psi) \wedge \frac{\partial L}{\partial \Psi}+(\xi \downharpoonleft D\Psi) \wedge \frac{\partial L}{ \partial D \Psi} .$ | $\xi \rfloor L \equiv (\xi \rfloor \vartheta^{\alpha}) \wedge \frac{\partial L}{ \partial \vartheta^{\alpha}}+(\xi \rfloor \Psi) \wedge \frac{\partial L}{\partial \Psi}+(\xi \rfloor D\Psi) \wedge \frac{\partial L}{ \partial D \Psi} .$ |
| mielke-geometrodynamics_EQ0064 (2.8.6) **[conf 0.054]** | 47 | ■ 0.054 | `\begin{aligned} & \stackrel{*}{\pi}\left(\gamma_{1} \right)=-\frac{1}{2 \pi i} \operatorname{Tr} \Omega \quad(=0) \\ & \stackrel{*}{\pi}\left(\gamma_{2} \right)=-\frac{1}{8 \pi^{2}}\{\operatorname{Tr}( \Omega \wedge \Omega)-\operatorname{Tr}(\Omega) \wedge \operatorname{Tr}(\Omega)\} \\ & \quad\left(=-\frac{1}{32 \pi^{2}} \epsilon^{\alpha \beta \mu \nu} F_{\alpha \beta}{}^{j} F_{\mu \nu j} \sqrt{|g|} d^{4} x\right) \\ & * \pi^{2}\left(\gamma_{k}\right)=0 \text { for } k \geq 3 . \end{aligned}` | $\begin{aligned} & \stackrel{*}{\pi}\left(\gamma_{1} \right)=-\frac{1}{2 \pi i} \operatorname{Tr} \Omega \quad(=0) \\ & \stackrel{*}{\pi}\left(\gamma_{2} \right)=-\frac{1}{8 \pi^{2}}\{\operatorname{Tr}( \Omega \wedge \Omega)-\operatorname{Tr}(\Omega) \wedge \operatorname{Tr}(\Omega)\} \\ & \quad\left(=-\frac{1}{32 \pi^{2}} \epsilon^{\alpha \beta \mu \nu} F_{\alpha \beta}{}^{j} F_{\mu \nu j} \sqrt{|g|} d^{4} x\right) \\ & * \pi^{2}\left(\gamma_{k}\right)=0 \text { for } k \geq 3 . \end{aligned}$ | $\begin{aligned} & \stackrel{*}{\pi}\left(\gamma_{1} \right)=-\frac{1}{2 \pi i} \operatorname{Tr} \Omega \quad(=0) \\ & \stackrel{*}{\pi}\left(\gamma_{2} \right)=-\frac{1}{8 \pi^{2}}\{\operatorname{Tr}( \Omega \wedge \Omega)-\operatorname{Tr}(\Omega) \wedge \operatorname{Tr}(\Omega)\} \\ & \quad\left(=-\frac{1}{32 \pi^{2}} \epsilon^{\alpha \beta \mu \nu} F_{\alpha \beta}{}^{j} F_{\mu \nu j} \sqrt{|g|} d^{4} x\right) \\ & \stackrel{*}{\pi}\left(\gamma_{k}\right)=0 \quad \text { for } \quad k \geq 3 . \end{aligned}$ |
| mielke-geometrodynamics_EQ0400 (6.4.19) **[conf 0.060]** | 133 | ■ 0.060 | `\stackrel{( \pm)}{\mathscr{G}}_{\alpha}:=\stackrel{( \pm)}{\underline{D}}^{( \pm)} \underline{\Pi}_{\alpha}= \stackrel{( \pm)}{\underline{D}} \stackrel{*}{ }_{ \underline{A}_{\alpha}}^{( \pm)}=0,` | $\overset{(\pm)}{\mathscr{G}}_{\alpha}:=\overset{(\pm)}{\underline{D}}^{(\pm)} \underline{\Pi}_{\alpha}=\overset{(\pm)}{\underline{D}} *_{\underline{A}_{\alpha}}^{(\pm)}=0,$ | $\overset{(\pm)}{\mathscr{G}}_{\alpha}:=\overset{(\pm)}{\underline{D}}\overset{(\pm)}{\underline{\Pi}}_{\alpha}=\overset{(\pm)}{\underline{D}} *_{\underline{\mathscr{A}}_{\alpha}}^{(\pm)}=0,$ |
| mielke-geometrodynamics_EQ0718 (10.9.4) **[conf 0.066]** | 229 | ■ 0.066 | `\begin{aligned} \Sigma_{\alpha} & \left.\left.:=e_{ \alpha}\right\rfloor L_{\Psi}-\left(e_{\alpha}\right\rfloor L_{\Psi}\right) \wedge \frac{\partial L_{\Psi}}{ \partial \Psi}-\left(e_{\alpha} \downharpoonleft \bar{ \Psi}\right) \wedge \frac{\partial L_{\Psi}}{\partial \bar{\Psi}} \\ & \left.-\left(e_{\alpha}\right\rfloor D \Psi\right) \wedge \frac{\partial L_{\Psi}}{\partial D \Psi}-\left(e_{\alpha} \downharpoonleft D \bar{\Psi} \right) \wedge \frac{\partial L_{\Psi}}{\partial D \bar{ \Psi}} ; \end{aligned}` | $\begin{aligned} \Sigma_{\alpha} & \left.\left.:=e_{ \alpha}\right\rfloor L_{\Psi}-\left(e_{\alpha}\right\rfloor \Psi\right) \wedge \frac{\partial L_{\Psi}}{ \partial \Psi}-\left(e_{\alpha} \downharpoonleft \bar{ \Psi}\right) \wedge \frac{\partial L_{\Psi}}{\partial \bar{\Psi}} \\ & \left.-\left(e_{\alpha}\right\rfloor D \Psi\right) \wedge \frac{\partial L_{\Psi}}{\partial D \Psi}-\left(e_{\alpha} \downharpoonleft D \bar{\Psi} \right) \wedge \frac{\partial L_{\Psi}}{\partial D \bar{ \Psi}} ; \end{aligned}$ | $\begin{aligned} \Sigma_{\alpha} & \left.\left.:=e_{ \alpha}\right\rfloor L_{\Psi}-\left(e_{\alpha}\right\rfloor \Psi\right) \wedge \frac{\partial L_{\Psi}}{ \partial \Psi}-\left(e_{\alpha}\right\rfloor \bar{ \Psi}\right) \wedge \frac{\partial L_{\Psi}}{\partial \bar{\Psi}} \\ & \left.-\left(e_{\alpha}\right\rfloor D \Psi\right) \wedge \frac{\partial L_{\Psi}}{\partial D \Psi}-\left(e_{\alpha}\right\rfloor D \bar{ \Psi}\right) \wedge \frac{\partial L_{\Psi}}{\partial D \bar{ \Psi}} ; \end{aligned}$ |
| mielke-geometrodynamics_EQ0391 (6.4.6) **[conf 0.066]** | 131 | ■ 0.066 | `\begin{aligned} \Sigma_{\alpha}:=\frac{\delta L}{\delta \vartheta^{\alpha}}= & \left.\left.e_{\alpha}\right\rfloor L-\left(e_{\alpha} \downharpoonleft D \Psi\right) \wedge \frac{\partial L}{\partial D \Psi}-\left(e_{ \alpha}\right\rfloor \Psi\right) \wedge \frac{\partial L}{\partial \Psi} \\ & -\left(e_{\alpha} \downharpoonleft T^{\beta}\right) \wedge \frac{\partial L}{\partial T^{\beta}}+D \frac{\partial L}{\partial T^{\alpha}}-\left(e_{\alpha} \downharpoonleft R_{\beta}^{\gamma}\right) \wedge \frac{\partial L}{\partial R_{\beta}^{ \gamma}} . \end{aligned}` | $\begin{aligned} \Sigma_{\alpha}:=\frac{\delta L}{\delta \vartheta^{\alpha}}= & \left.\left.e_{\alpha}\right\rfloor L-\left(e_{\alpha} \downharpoonleft D \Psi\right) \wedge \frac{\partial L}{\partial D \Psi}-\left(e_{ \alpha}\right\rfloor \Psi\right) \wedge \frac{\partial L}{\partial \Psi} \\ & -\left(e_{\alpha} \downharpoonleft T^{\beta}\right) \wedge \frac{\partial L}{\partial T^{\beta}}+D \frac{\partial L}{\partial T^{\alpha}}-\left(e_{\alpha} \downharpoonleft R_{\beta}^{\gamma}\right) \wedge \frac{\partial L}{\partial R_{\beta}^{ \gamma}} . \end{aligned}$ | $\begin{aligned} \Sigma_{\alpha}:=\frac{\delta L}{\delta \vartheta^{\alpha}}= & \left.\left.e_{\alpha}\right\rfloor L-\left(e_{\alpha} \rfloor D \Psi\right) \wedge \frac{\partial L}{\partial D \Psi}-\left(e_{ \alpha}\right\rfloor \Psi\right) \wedge \frac{\partial L}{\partial \Psi} \\ & -\left(e_{\alpha} \rfloor T^{\beta}\right) \wedge \frac{\partial L}{\partial T^{\beta}}+D \frac{\partial L}{\partial T^{\alpha}}-\left(e_{\alpha} \rfloor R_{\beta}^{\gamma}\right) \wedge \frac{\partial L}{\partial R_{\beta}^{ \gamma}} . \end{aligned}$ |

| Identifier | Page | Conf. | LaTeX source | Rendered | Image |
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| mielke-geometrodynamics_EQ0528 (7.7.48) **[conf 0.078]** | 168 | ■ 0.078 | \begin{aligned} 2 \ell^{2} d C_{\mathrm{T} \mathrm{~T}^{*}}: & =2 d\left(\vartheta^{\alpha} \wedge{ }^{*} T_{\alpha}\right) \\ & =R^{\{f \alpha \beta} \wedge \eta_{\alpha \beta}-R^{\alpha \beta} \wedge \eta_{\alpha \beta} \\ & \left.\left.-T^{\alpha} *\left[T_{\alpha}-\vartheta_{\alpha} \wedge\left(e_{\beta}\right\rfloor T^{\beta}\right)-\frac{1}{2} e_{\alpha}\right\rfloor \left(T^{\beta} \wedge \vartheta_{\beta}\right)\right] \\ & =R^{\{f \alpha \beta} \wedge \eta_{\alpha \beta}-R^{\alpha \beta} \wedge \eta_{\alpha \beta}-T^{\alpha} \wedge *\left(-{ }^{(1)} T_{\alpha}+2^{(2)} T_{\alpha}+\frac{1}{2}{ }^{(3)} T_{\alpha}\right), \end{aligned} | $$\begin{aligned} 2 \ell^{2} d C_{\mathrm{T} \mathrm{~T}^{*}}: & =2 d\left(\vartheta^{\alpha} \wedge{ }^{*} T_{\alpha}\right) \\ & =R^{\{f \alpha \beta} \wedge \eta_{\alpha \beta}-R^{\alpha \beta} \wedge \eta_{\alpha \beta} \\ & \left.\left.-T^{\alpha} *\left[T_{\alpha}-\vartheta_{\alpha} \wedge\left(e_{\beta}\right\rfloor T^{\beta}\right)-\frac{1}{2} e_{\alpha}\right\rfloor \left(T^{\beta} \wedge \vartheta_{\beta}\right)\right] \\ & =R^{\{f \alpha \beta} \wedge \eta_{\alpha \beta}-R^{\alpha \beta} \wedge \eta_{\alpha \beta}-T^{\alpha} \wedge *\left(-{ }^{(1)} T_{\alpha}+2^{(2)} T_{\alpha}+\frac{1}{2}{ }^{(3)} T_{\alpha}\right), \end{aligned}$$ | $$\begin{aligned} 2\ell^2\, dC_{\mathrm{TT}^*} &:= 2d(\vartheta^\alpha \wedge {}^*T_\alpha) \qquad (7.7.4 \\ &= R^{\{\}\alpha\beta} \wedge \eta_{\alpha\beta} - R^{\alpha\beta} \wedge \eta_{\alpha\beta} \\ &\quad - T^\alpha * \left[T_\alpha - \vartheta_\alpha \wedge (e_\beta \rfloor T^\beta) - \frac{1}{2} e_\alpha \rfloor (T^\beta \wedge \vartheta_\beta)\right] \\ &= R^{\{\}\alpha\beta} \wedge \eta_{\alpha\beta} - R^{\alpha\beta} \wedge \eta_{\alpha\beta} - T^\alpha \wedge *\left(-{}^{(1)}T_\alpha + 2\,{}^{(2)}T_\alpha + \frac{1}{2}\,{}^{(3)}T_\alpha\right), \end{aligned}$$ |
| mielke-geometrodynamics_EQ0382 (6.2.33) **[conf 0.087]** | 129 | ■ 0.087 | \stackrel{( \pm)}{\Gamma}_{\alpha}{ }^{\beta}:=\Gamma_{ \alpha}{ }^{\beta}+i \stackrel{(\mp)}{A^{\beta}}, \quad \stackrel{( \pm)}{A^{\beta}}{ }^{\beta}:= \pm \frac{1}{2} \ell^{2} e_{\alpha} \downharpoonleft \stackrel{( \pm)}{ \Pi^{\beta}}, | $$\overset{(\pm)}{\Gamma}{}_\alpha{}^\beta := \Gamma_\alpha{}^\beta + i\,\overset{(\mp)}{A}{}^\beta, \quad \overset{(\pm)}{A}{}^\beta{}_\beta := \pm\frac{1}{2}\ell^2 e_\alpha \lrcorner \overset{(\pm)}{\Pi}{}^\beta,$$ | $$\overset{(\pm)}{\Gamma}{}_\alpha{}^\beta := \Gamma_\alpha{}^\beta + i\,\overset{(\mp)}{A}{}_\alpha{}^\beta, \qquad \overset{(\pm)}{A}{}_\alpha{}^\beta := \pm\frac{1}{2}\ell^2\, e_\alpha \lrcorner \overset{(\pm)}{\Pi}{}^\beta,$$ |
| mielke-geometrodynamics_EQ0405 (6.4.25) **[conf 0.098]** | 135 | ■ 0.098 | -\ell^{2} \underline{D}^{( \pm)}{ }^{*}\left(\frac{ \delta}{\delta \underline{*}_{B}}\right)=\underline{D}^{( \pm)} \underline{T}^{B} \equiv \underline{R}_{C}^{( \pm)}{ }^{B} \stackrel{( \pm)}{\vartheta}^{C}=0, | $$-\ell^2 \underline{D}^{(\pm)*}\left(\frac{\delta}{\delta \underline{*}_B}\right) = \underline{D}^{(\pm)}\underline{T}^B \equiv \underline{R}_C^{(\pm)}{}^B\, \overset{(\pm)}{\vartheta}{}^C = 0,$$ | $$-\ell^2 \underline{D}^{(\pm)*}\left(\frac{\delta}{\delta \underline{*}\underline{\vartheta}_B}\right) = \underline{D}^{(\pm)}\underline{T}^B \equiv \underline{R}^{(\pm)}_C{}^B \wedge \underline{\vartheta}^{(\pm)}{}^C = 0,$$ |
| mielke-geometrodynamics_EQ0529 (7.7.49) **[conf 0.099]** | 168 | ■ 0.099 | \begin{aligned} L_{\text {Euler }}: & =(-1)^{\text {sig+1 }} \operatorname{Tr}\left\{\Omega \wedge \Omega^{(\star)} \right\}=\frac{(-1)^{\text {sig }}}{2} R^{\alpha \beta} \wedge R_{\alpha \beta}^{(\star)} \\ & =d C_{\mathrm{RR}(\star)}=\frac{(-1)^{\text {sig }}}{2} d\left(\Gamma_{ \alpha \beta} \wedge R^{\alpha \beta(\star)}-\frac{1}{3} \Gamma_{\alpha}{ }^{\beta(\star)} \wedge \Gamma_{\beta}{ }^{\gamma} \wedge \Gamma_{\gamma}{ }^{\alpha}\right) \\ & \equiv \frac{1}{2} R_{\alpha \beta} \wedge{ }^{*} R^{\alpha \beta}-2 \operatorname{Ric}_{\alpha \beta} \wedge{ }^{*} \operatorname{Ric}^{\alpha \beta}+\frac{1}{2} \operatorname{Ric}_{\alpha}{ }^{\alpha} \wedge{ }^{*} \operatorname{Ric}_{\beta}{ }^{\beta} \\ & \equiv-L_{\mathrm{SKY}} \\ & -2\left(\operatorname{Ric}_{\alpha \beta} \wedge{ }^{*} \operatorname{Ric}^{\alpha \beta}-\frac{1}{4} \operatorname{Ric}_{\alpha}{ }^{\alpha} \wedge{ }^{*} \operatorname{Ric}_{\beta}{ }^{\beta}\right) \end{aligned} | $$\begin{aligned} L_{\text{Euler}} &:= (-1)^{\text{sig}+1}\operatorname{Tr}\left\{\Omega \wedge \Omega^{(\star)}\right\} = \frac{(-1)^{\text{sig}}}{2} R^{\alpha\beta} \wedge R^{(\star)}_{\alpha\beta} \\ &= dC_{\mathrm{RR}(\star)} = \frac{(-1)^{\text{sig}}}{2} d\left(\Gamma_{\alpha\beta} \wedge R^{\alpha\beta(\star)} - \frac{1}{3}\Gamma_\alpha{}^{\beta(\star)} \wedge \Gamma_\beta{}^\gamma \wedge \Gamma_\gamma{}^\alpha\right) \\ &\equiv \frac{1}{2} R_{\alpha\beta} \wedge {}^*R^{\alpha\beta} - 2\operatorname{Ric}_{\alpha\beta} \wedge {}^*\operatorname{Ric}^{\alpha\beta} + \frac{1}{2}\operatorname{Ric}_\alpha{}^\alpha \wedge {}^*\operatorname{Ric}_\beta{}^\beta \\ &\equiv -L_{\mathrm{SKY}} \\ &\quad - 2\left(\operatorname{Ric}_{\alpha\beta} \wedge {}^*\operatorname{Ric}^{\alpha\beta} - \frac{1}{4}\operatorname{Ric}_\alpha{}^\alpha \wedge {}^*\operatorname{Ric}_\beta{}^\beta\right) \end{aligned}$$ | $$\begin{aligned} L_{\text{Euler}} &:= (-1)^{\text{sig}+1}\operatorname{Tr}\{\Omega \wedge \Omega^{(\star)}\} = \frac{(-1)^{\text{sig}}}{2} R^{\alpha\beta} \wedge R^{(\star)}_{\alpha\beta} \\ &= dC_{\mathrm{RR}^{(\star)}} = \frac{(-1)^{\text{sig}}}{2} d\left(\Gamma_{\alpha\beta} \wedge R^{\alpha\beta(\star)} - \frac{1}{3}\Gamma_\alpha{}^{\beta(\star)} \wedge \Gamma_\beta{}^\gamma \wedge \Gamma_\gamma{}^\alpha\right) \\ &\equiv \frac{1}{2} R_{\alpha\beta} \wedge {}^*R^{\alpha\beta} - 2\operatorname{Ric}_{\alpha\beta} \wedge {}^*\operatorname{Ric}^{\alpha\beta} + \frac{1}{2}\operatorname{Ric}_\alpha{}^\alpha \wedge {}^*\operatorname{Ric}_\beta{}^\beta \\ &\equiv -L_{\mathrm{SKY}} \\ &\quad - 2\left(\operatorname{Ric}_{\alpha\beta} \wedge {}^*\operatorname{Ric}^{\alpha\beta} - \frac{1}{4}\operatorname{Ric}_\alpha{}^\alpha \wedge {}^*\operatorname{Ric}_\beta{}^\beta\right) \qquad (7 \end{aligned}$$ |

| Identifier | Page | Conf. | LaTeX source | Rendered | Image |
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| mielke-geometrodynamics_EQ0974 (14.2.15) **[conf 0.099]** | 315 | ■0.099 | `\Theta^{\perp}:=\pi(\hat{\Theta}-[\hat{\alpha}, \hat{\vartheta}])=\left[\begin{array}{c\|} \Theta \\ \hline 0 \end{array} \left\lvert\, \frac{\hat{\ell} \Omega^{\prime}}{\circ \Theta}=0\right.\right],` | $\Theta^{\perp} := \pi(\hat{\Theta} - [\hat{\alpha}, \hat{\vartheta}]) = \left[\begin{array}{c\|} \Theta \\ \hline 0 \end{array} \left\lvert\, \frac{\hat{\ell} \Omega^{\prime}}{\circ \Theta}=0\right.\right],$ | $\Theta^{\perp} := \pi(\hat{\Theta} - [\hat{\alpha}, \hat{\vartheta}]) = \left[\begin{array}{c\|} \Theta \\ \hline 0 \end{array} \left\lvert\, \frac{\hat{\ell} \Omega^{\prime}}{\overset{\circ}{\Theta}}=0\right.\right],$ |
| mielke-geometrodynamics_EQ0553 (8.4.7) | 180 | ■0.100 | `\begin{aligned} L_{\mathrm{SKY}}^{(\star)} & =\frac{1}{2} \operatorname{Tr}\left(\stackrel{ \pm}{\Omega}^{g} \wedge{ }^{*} \stackrel{ }{\circ}^{g}\right) \\ & =-\frac{1}{2} R^{\alpha \beta} \wedge{ }^{*} R_{\alpha \beta} \mp \frac{(-1)^{\mathrm{sig}}}{2} R^{\alpha \beta} \wedge R_{\alpha \beta}^{(\star)} \\ & =-\frac{1}{4}\left(R_{\alpha \beta} \pm{ }^{*} R_{\alpha \beta}^{(\star)}\right) \wedge{ }^{*}\left(R^{\alpha \beta} \pm{ }^{*} R^{\alpha \beta(\star)}\right) . \end{aligned}` | $\begin{aligned} L_{\mathrm{SKY}}^{(\star)} & =\frac{1}{2} \operatorname{Tr}\left(\stackrel{ \pm}{\Omega}^{g} \wedge{ }^{*} \stackrel{ }{\circ}^{g}\right) \\ & =-\frac{1}{2} R^{\alpha \beta} \wedge{ }^{*} R_{\alpha \beta} \mp \frac{(-1)^{\mathrm{sig}}}{2} R^{\alpha \beta} \wedge R_{\alpha \beta}^{(\star)} \\ & =-\frac{1}{4}\left(R_{\alpha \beta} \pm{ }^{*} R_{\alpha \beta}^{(\star)}\right) \wedge{ }^{*}\left(R^{\alpha \beta} \pm{ }^{*} R^{\alpha \beta(\star)}\right) . \end{aligned}$ | $\begin{aligned} L_{\mathrm{SKY}}^{(\star)} & =\frac{1}{2} \operatorname{Tr}\left(\stackrel{ \pm}{\Omega}^{g} \wedge{ }^{*} \stackrel{ }{\Omega}^{g}\right) \\ & =-\frac{1}{2} R^{\alpha \beta} \wedge{ }^{*} R_{\alpha \beta} \mp \frac{(-1)^{\mathrm{sig}}}{2} R^{\alpha \beta} \wedge R_{\alpha \beta}^{(\star)} \\ & =-\frac{1}{4}\left(R_{\alpha \beta} \pm{ }^{*} R_{\alpha \beta}^{(\star)}\right) \wedge{ }^{*}\left(R^{\alpha \beta} \pm{ }^{*} R^{\alpha \beta(\star)}\right) . \end{aligned}$ |
| mielke-geometrodynamics_EQ0311 (4.6.3) | 104 | ■0.111 | `\begin{aligned} \widetilde{\leftarrow}_{\widetilde{y}} \widetilde{\widetilde{D}} \widetilde{\widetilde{D}} \widetilde{\xi}^{\alpha} & \left.=\widetilde{y}\rfloor\left(\widetilde{\widetilde{D}} \widetilde{\widetilde{D}} \widetilde{\xi}^{\alpha}\right)+\widetilde{\widetilde{D}}(\widetilde{\widetilde{y}}\rfloor \widetilde{\widetilde{D}} \widetilde{\xi}^{\alpha}\right) \\ & =y J\left(D D \xi^{\alpha}+R^{(T) \alpha}\right)=0, \end{aligned}` | $\begin{aligned} \widetilde{\leftarrow}_{\widetilde{y}} \widetilde{\widetilde{D}} \widetilde{\widetilde{D}} \widetilde{\xi}^{\alpha} & \left.=\widetilde{y}\rfloor\left(\widetilde{\widetilde{D}} \widetilde{\widetilde{D}} \widetilde{\xi}^{\alpha}\right)+\widetilde{\widetilde{D}}(\widetilde{\widetilde{y}}\rfloor \widetilde{\widetilde{D}} \widetilde{\xi}^{\alpha}\right) \\ & =y J\left(D D \xi^{\alpha}+R^{(T) \alpha}\right)=0, \end{aligned}$ | $\begin{aligned} \widetilde{\leftarrow}_{\widetilde{y}} \widetilde{\widetilde{D}} \widetilde{\widetilde{D}} \widetilde{\xi}^{\alpha} & \left.=\widetilde{y}\rfloor\left(\widetilde{\widetilde{D}} \widetilde{\widetilde{D}} \widetilde{\xi}^{\alpha}\right)+\widetilde{\widetilde{D}}(\widetilde{\widetilde{y}}\rfloor \widetilde{\widetilde{D}} \widetilde{\xi}^{\alpha}\right) \\ & =y J\left(D D \xi^{\alpha}+R^{(T) \alpha}\right)=0, \end{aligned}$ |
| mielke-geometrodynamics_EQ0378 (6.2.29) | 128 | ■0.136 | `D D \vartheta^{\alpha}=R_{\beta}{ }^{\alpha} \wedge \vartheta^{\beta}=0, \stackrel{( \pm)}{D} \stackrel{( \pm)}{D} \stackrel{( \pm)}{\Pi}_{\alpha}=-\stackrel{( \pm)}{R}_{\alpha}{ }^{\beta} \wedge \stackrel{( \pm)}{\Pi}_{\beta}= \pm \frac{i}{2} \ell^{2}\left(e_{\alpha} \downharpoonleft \stackrel{( \pm)}{\Pi^{\beta}}\right) \wedge \Sigma_{\beta} \cong 0 .` | $DD\vartheta^{\alpha} = R_{\beta}{}^{\alpha} \wedge \vartheta^{\beta} = 0,\ \overset{(\pm)}{D}\,\overset{(\pm)}{D}\,\overset{(\pm)}{\Pi}_{\alpha} = -\overset{(\pm)}{R}_{\alpha}{}^{\beta} \wedge \overset{(\pm)}{\Pi}_{\beta} = \pm\frac{i}{2}\ell^{2}\left(e_{\alpha} \downharpoonleft \overset{(\pm)}{\Pi}{}^{\beta}\right) \wedge \Sigma_{\beta} \cong 0.$ | $DD\vartheta^{\alpha} = R_{\beta}{}^{\alpha} \wedge \vartheta^{\beta} = 0,\ \overset{(\pm)}{D}\,\overset{(\pm)}{D}\,\overset{(\pm)}{\Pi}_{\alpha} = -\overset{(\pm)}{R}_{\alpha}{}^{\beta} \wedge \overset{(\pm)}{\Pi}_{\beta} = \pm\frac{i}{2}\ell^{2}\left(e_{\alpha} \downharpoonleft \overset{(\pm)}{\Pi}{}^{\beta}\right) \wedge \Sigma_{\beta} \cong 0.$ |
| mielke-geometrodynamics_EQ1059 (15.2.16) | 346 | ■0.147 | `\begin{aligned} \psi= & {\left[\begin{array}{lll\|l} \mathcal{P}_{a} & \mathcal{P}_{b} & \mathcal{P}_{c} & \nu_{e} \\ \eta_{a} & \eta_{b} & \eta_{c} & e^{-} \\ \lambda_{a} & \lambda_{b} & \lambda_{c} & \mu^{-} \\ \hline c_{a} & c_{b} & c_{c} & \nu_{\mu} \end{array} \right] \begin{array}{cc} \text { up } & \\ \text { down } & \uparrow \\ \text { strange } & \text { flavors } \\ \text { charm } & \downarrow \end{array} } \\ & \text { red } \quad \begin{array}{l} \text { yellow } \text { blue } \text { lilac } \\ \\ \end{array} . \end{aligned}` | $\begin{aligned} \psi= & {\left[\begin{array}{lll\|l} \mathcal{P}_{a} & \mathcal{P}_{b} & \mathcal{P}_{c} & \nu_{e} \\ \eta_{a} & \eta_{b} & \eta_{c} & e^{-} \\ \lambda_{a} & \lambda_{b} & \lambda_{c} & \mu^{-} \\ \hline c_{a} & c_{b} & c_{c} & \nu_{\mu} \end{array} \right] \begin{array}{cc} \text { up } & \\ \text { down } & \uparrow \\ \text { strange } & \text { flavors } \\ \text { charm } & \downarrow \end{array} } \\ & \text { red } \quad \begin{array}{l} \text { yellow } \text { blue } \text { lilac } \\ \\ \end{array} . \end{aligned}$ | $\begin{aligned} \psi= & {\left[\begin{array}{lll\|l} \mathcal{P}_{a} & \mathcal{P}_{b} & \mathcal{P}_{c} & \nu_{e} \\ \eta_{a} & \eta_{b} & \eta_{c} & e^{-} \\ \lambda_{a} & \lambda_{b} & \lambda_{c} & \mu^{-} \\ \hline c_{a} & c_{b} & c_{c} & \nu_{\mu} \end{array} \right] \begin{array}{cc} \text { up } & \\ \text { down } & \uparrow \\ \text { strange } & \text { flavors } \\ \text { charm } & \downarrow \end{array} } \\ & \text { red } \quad \begin{array}{l} \text { yellow } \text { blue } \text { lilac } \\ \\ \end{array} . \end{aligned}$ |
| mielke-geometrodynamics_EQ0972 (14.2.13) | 314 | ■0.153 | `\stackrel{\text { (ɔ) }}{D} \alpha:=\stackrel{\text { (∘) }}{d} \alpha-\omega^{g} \wedge \alpha-\alpha \wedge \stackrel{\circ}{\circ}` | $\overset{(\text{ɔ})}{D}\ \alpha := \overset{(\circ)}{d}\ \alpha - \omega^{g} \wedge \alpha - \alpha \wedge \overset{\circ}{\circ}$ | $\overset{(\circ)}{D}\alpha := \overset{(\circ)}{d}\alpha - \omega^{g} \wedge \alpha - \alpha \wedge \overset{\circ}{\omega}$ |

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| mielke-geometrodynamics_EQ0264 (4.3.29) | 95 | 0.154 | `\Gamma_{i j}^{\cdot{ }^{\prime}}=\left\{\begin{array}{c} \kappa \\ i j \end{array}\right\}-K_{i j}^{\cdot \kappa},` | $\Gamma_{ij}^{\cdot\prime} = \left\{ \begin{array}{c} \kappa \\ ij \end{array} \right\} - K_{ij}^{\cdot\kappa},$ | $\Gamma_{ij}^{\cdot\cdot\kappa} = \left\{ \begin{array}{c} \kappa \\ ij \end{array} \right\} - K_{ij}^{\cdot\cdot\kappa},$ |
| mielke-geometrodynamics_EQ0292 (4.5.3) | 100 | 0.165 | `\begin{aligned} £_{\xi} L & =\left(£_{\xi} g_{\alpha \beta}\right) \wedge \frac{\partial L}{\partial g_{ \alpha \beta}}+\left(£_{\xi} \vartheta^{\alpha}\right) \wedge \frac{\partial L}{\partial \vartheta^{\alpha}} \ \ & +\left(£_{\xi} \Psi\right) \wedge \frac{\partial L}{ \partial \Psi}+\left(£_{\xi} D \Psi\right) \wedge \frac{ \partial L}{\partial D \Psi} \\ & \left.\left.\left.=D \left[(\xi\rfloor \vartheta^{\alpha}\right) \wedge \frac{ \partial L}{\partial \vartheta^{\alpha}}+(\xi\rfloor \Psi\right) \wedge \frac{\partial L}{\partial \Psi}+(\xi \rfloor D \Psi\right) \wedge \frac{\partial L}{\partial D \Psi}\right] \\ & \left.\left.-\left(\xi \downharpoonleft \vartheta^{\alpha}\right) D \frac{\partial L}{\partial \vartheta^{\alpha}}+(\xi\rfloor T^{\alpha}\right) \wedge \frac{\partial L}{\partial \vartheta^{\alpha}}+(\xi \lrcorner R_{\beta}^{\gamma}\right) \wedge I^{\beta}{ }_{ \gamma} \Psi \wedge \frac{\partial L}{\partial D \Psi} \\ & \left.+(\xi\rfloor D \Psi) \wedge \frac{\delta L}{ \delta \Psi}+(-1)^{p}(\xi\rfloor \Psi\right) \wedge D \frac{\delta L}{\delta \Psi} \end{aligned}` | $\begin{aligned} £_{\xi} L & =\left(£_{\xi} g_{\alpha \beta}\right) \wedge \frac{\partial L}{\partial g_{ \alpha \beta}}+\left(£_{\xi} \vartheta^{\alpha}\right) \wedge \frac{\partial L}{\partial \vartheta^{\alpha}} \ \ & +\left(£_{\xi} \Psi\right) \wedge \frac{\partial L}{ \partial \Psi}+\left(£_{\xi} D \Psi\right) \wedge \frac{ \partial L}{\partial D \Psi} \\ & \left.\left.\left.=D \left[(\xi\rfloor \vartheta^{\alpha}\right) \wedge \frac{ \partial L}{\partial \vartheta^{\alpha}}+(\xi\rfloor \Psi\right) \wedge \frac{\partial L}{\partial \Psi}+(\xi \rfloor D \Psi\right) \wedge \frac{\partial L}{\partial D \Psi}\right] \\ & \left.\left.-\left(\xi \downharpoonleft \vartheta^{\alpha}\right) D \frac{\partial L}{\partial \vartheta^{\alpha}}+(\xi\rfloor T^{\alpha}\right) \wedge \frac{\partial L}{\partial \vartheta^{\alpha}}+(\xi \lrcorner R_{\beta}^{\gamma}\right) \wedge I^{\beta}{ }_{ \gamma} \Psi \wedge \frac{\partial L}{\partial D \Psi} \\ & \left.+(\xi\rfloor D \Psi) \wedge \frac{\delta L}{ \delta \Psi}+(-1)^{p}(\xi\rfloor \Psi\right) \wedge D \frac{\delta L}{\delta \Psi} \end{aligned}$ | $\begin{aligned} £_{\xi} L & =\left(£_{\xi} g_{\alpha \beta}\right) \wedge \frac{\partial L}{\partial g_{ \alpha \beta}}+\left(£_{\xi} \vartheta^{\alpha}\right) \wedge \frac{\partial L}{\partial \vartheta^{\alpha}} \ \ & +\left(£_{\xi} \Psi\right) \wedge \frac{\partial L}{ \partial \Psi}+\left(£_{\xi} D \Psi\right) \wedge \frac{ \partial L}{\partial D \Psi} \\ & \left.\left.\left.=D \left[(\xi\rfloor \vartheta^{\alpha}\right) \wedge \frac{ \partial L}{\partial \vartheta^{\alpha}}+(\xi\rfloor \Psi\right) \wedge \frac{\partial L}{\partial \Psi}+(\xi \rfloor D \Psi\right) \wedge \frac{\partial L}{\partial D \Psi}\right] \\ & \left.\left.-\left(\xi \downharpoonleft \vartheta^{\alpha}\right) D \frac{\partial L}{\partial \vartheta^{\alpha}}+(\xi\rfloor T^{\alpha}\right) \wedge \frac{\partial L}{\partial \vartheta^{\alpha}}+(\xi \lrcorner R_{\beta}^{\gamma}\right) \wedge I^{\beta}{ }_{ \gamma} \Psi \wedge \frac{\partial L}{\partial D \Psi} \\ & \left.+(\xi\rfloor D \Psi) \wedge \frac{\delta L}{ \delta \Psi}+(-1)^{p}(\xi\rfloor \Psi\right) \wedge D \frac{\delta L}{\delta \Psi} \end{aligned}$ |
| mielke-geometrodynamics_EQ0734 (11.1.1) | 237 | 0.220 | `\pi_{1}\left(S O_{\circ}(s, n-s), e\right)= \begin{cases} \mathbb{Z}_{2} & n=2 k \\ \mathbb{Z}_{2} & \oplus \mathbb{Z}_{2} \\ \mathbb{Z}_{4} & n=4 k \\ & n=2(2 k+1)\end{cases}` | $\pi_1\left(SO_\circ(s, n-s), e\right)= \begin{cases} \mathbb{Z}_2 & n=2k \\ \mathbb{Z}_2 & \oplus \mathbb{Z}_2 \\ \mathbb{Z}_4 & n=4k \\ & n=2(2k+1) \end{cases}$ | $\pi_1(SO_\circ(s, n-s), e)= \begin{cases} \mathbb{Z}_2 & n=2k \\ \mathbb{Z}_2 \oplus \mathbb{Z}_2 & n=4k \\ \mathbb{Z}_4 & n=2(2k+1). \end{cases}$ |
| mielke-geometrodynamics_EQ0961 (14.2.1) | 312 | 0.220 | `\hat{\vartheta}=\hat{\vartheta}(m, g)=\underbrace{\left[ \begin{array}{c\|c} \vartheta & \hat{\ell} \omega \\ \hline 0 & \grave{\vartheta} \end{array}\right]}_{4} \begin{aligned} & \} 4 \\ & \} K \end{aligned} .` | $\hat{\vartheta}=\hat{\vartheta}(m, g)=\underbrace{\left[ \begin{array}{c\|c} \vartheta & \hat{\ell} \omega \\ \hline 0 & \grave{\vartheta} \end{array}\right]}_{4} \begin{aligned} & \} 4 \\ & \} K \end{aligned} .$ | $\hat{\vartheta}=\hat{\vartheta}(m, g)=\underbrace{\left[ \begin{array}{c\|c} \vartheta & \hat{\ell} \omega \\ \hline 0 & \grave{\vartheta} \end{array}\right]}_{4} \begin{aligned} & \} 4 \\ & \} K \end{aligned} .$ |

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| mielke-geometrodynamics_EQ0211 (4.2.3) | 85 | 0.223 | \begin{aligned} * \widetilde{\widetilde{\Omega}} & =\stackrel{*}{\chi}\left(d \widetilde{\widetilde{\omega}}-\frac{1}{2}[\widetilde{\widetilde{\omega}}, \widetilde{\omega}]\right) \\ & =d \omega^{\mathrm{L}}-\omega^{\mathrm{L}} \wedge \omega^{\mathrm{L}}+d \omega^{\mathrm{T}}-\omega^{\mathrm{T}} \wedge \omega^{\mathrm{L}}-\omega^{\mathrm{L}} \wedge \omega^{\mathrm{T}}+\frac{1}{2}\left[\omega^{\mathrm{T}}, \omega^{\mathrm{T}}\right] \\ & =\Omega^{\mathrm{L}}+\Omega^{\mathrm{T}} \end{aligned} | $$\begin{aligned} *\widetilde{\widetilde{\Omega}} &= \stackrel{*}{\chi}\left(d\widetilde{\widetilde{\omega}} - \frac{1}{2}[\widetilde{\widetilde{\omega}}, \widetilde{\omega}]\right) \\ &= d\omega^{\mathrm{L}} - \omega^{\mathrm{L}} \wedge \omega^{\mathrm{L}} + d\omega^{\mathrm{T}} - \omega^{\mathrm{T}} \wedge \omega^{\mathrm{L}} - \omega^{\mathrm{L}} \wedge \omega^{\mathrm{T}} + \frac{1}{2}\left[\omega^{\mathrm{T}}, \omega^{\mathrm{T}}\right] \\ &= \Omega^{\mathrm{L}} + \Omega^{\mathrm{T}} \end{aligned}$$ | $$\begin{aligned} \stackrel{*}{\chi}\widetilde{\widetilde{\Omega}} &= \stackrel{*}{\chi}(d\widetilde{\widetilde{\omega}} - \frac{1}{2}[\widetilde{\widetilde{\omega}}, \widetilde{\widetilde{\omega}}]) \\ &= d\omega^{\mathrm{L}} - \omega^{\mathrm{L}} \wedge \omega^{\mathrm{L}} + d\omega^{\mathrm{T}} - \omega^{\mathrm{T}} \wedge \omega^{\mathrm{L}} - \omega^{\mathrm{L}} \wedge \omega^{\mathrm{T}} + \frac{1}{2}[\omega^{\mathrm{T}}, \omega^{\mathrm{T}}] \\ &= \Omega^{\mathrm{L}} + \Omega^{\mathrm{T}} \end{aligned}$$ |
| mielke-geometrodynamics_EQ0266 (4.3.31) | 95 | 0.227 | R_{i j c}^{:: d}=R_{i j c}^{\{!\ldots d}-2 D_{[i} K_{j j c}^{\cdot d}+2 K_{[i \mid c}^{\cdot h} K_{i j j h}^{\cdot d} . | $R_{ijc}^{::d} = R_{ijc}^{\{!\ldots d} - 2D_{[i}K_{jjc}^{\cdot d} + 2K_{[i]c}^{\cdot h}K_{ijjh}^{\cdot d}.$ | $R_{ijc}^{\cdot\cdot d} = R_{ijc}^{\{\}\ldots d} - 2D_{[i}K_{j]c}^{\cdot\cdot d} + 2K_{[i]c}^{\cdot\cdot h}K_{j]h}^{\cdot\cdot d}.$ |
| mielke-geometrodynamics_EQ0286 (4.4.15) | 99 | 0.229 | D \Pi_{[]}^{\mathrm{T}}-\mathrm{E}_{[]}=\Sigma_{[l} | $D\Pi_{[]}^{\mathrm{T}} - \mathrm{E}_{[]} = \Sigma_{[l}$ | $D\Pi_{[]}^{\mathrm{T}} - \mathrm{E}_{[]} = \Sigma_{[]}$ |
| mielke-geometrodynamics_EQ0337 (5.3.14) | 114 | 0.239 | \begin{aligned} R^{\{\alpha \beta \beta} \wedge \eta_{ \alpha \beta} \equiv & R^{\alpha \beta} \wedge \eta_{ \alpha \beta}-K^{\alpha \mu} \wedge K_{\mu}{ }^{\beta} \wedge \eta_{\alpha \beta}+K^{\alpha \beta} \wedge T^{\gamma} \wedge \eta_{\alpha \beta \gamma} \\ & +d \left(K^{\alpha \beta} \wedge \eta_{\alpha \beta}\right) \\ = & R^{\alpha \beta} \wedge \eta_{\alpha \beta}+T^{\alpha} \wedge \left(-{ }^{(1)} T_{\alpha}+2^{(2)} T_{\alpha}+\frac{1}{2}{ }^{(3)} T_{\alpha}\right)+2 d C_{\mathrm{TT}^{*}} \end{aligned} | $$\begin{aligned} R^{\{\alpha\beta\beta} \wedge \eta_{\alpha\beta} \equiv & R^{\alpha\beta} \wedge \eta_{\alpha\beta} - K^{\alpha\mu} \wedge K_{\mu}{}^{\beta} \wedge \eta_{\alpha\beta} + K^{\alpha\beta} \wedge T^{\gamma} \wedge \eta_{\alpha\beta\gamma} \\ & + d\left(K^{\alpha\beta} \wedge \eta_{\alpha\beta}\right) \\ = & R^{\alpha\beta} \wedge \eta_{\alpha\beta} + T^{\alpha} \wedge {}^{*}\left(-{}^{(1)}T_{\alpha} + 2\,{}^{(2)}T_{\alpha} + \frac{1}{2}\,{}^{(3)}T_{\alpha}\right) + 2dC_{\mathrm{TT}^{*}} \end{aligned}$$ | $$\begin{aligned} R^{\{\}\alpha\beta} \wedge \eta_{\alpha\beta} \equiv & R^{\alpha\beta} \wedge \eta_{\alpha\beta} - K^{\alpha\mu} \wedge K_{\mu}{}^{\beta} \wedge \eta_{\alpha\beta} + K^{\alpha\beta} \wedge T^{\gamma} \wedge \eta_{\alpha\beta\gamma} \\ & + d(K^{\alpha\beta} \wedge \eta_{\alpha\beta}) \qquad (5.3 \\ = & R^{\alpha\beta} \wedge \eta_{\alpha\beta} + T^{\alpha} \wedge {}^{*}\left(-{}^{(1)}T_{\alpha} + 2\,{}^{(2)}T_{\alpha} + \frac{1}{2}\,{}^{(3)}T_{\alpha}\right) + 2dC_{\mathrm{TT}^{*}} \end{aligned}$$ |
| mielke-geometrodynamics_EQ0835 (12.2.3) | 271 | 0.247 | \begin{aligned} L_{\mathrm{D}} & =L\left(\gamma, \psi, D^{(f)} \psi\right)-\frac{i}{2} \bar{\psi}\left({ }^{*} \gamma \wedge K-K \wedge^{*} \gamma\right) \psi+A \wedge j \\ & =L\left(\gamma, \psi, D^{(\dagger} \psi\right)+\frac{1}{4} \mathscr{A} \wedge j_{5}+A \wedge j \\ & =L\left(\gamma, \psi, D^{(i)} \psi\right)-T^{\alpha} \wedge \mu_{\alpha}+A \wedge j . \end{aligned} | $$\begin{aligned} L_{\mathrm{D}} &= L\left(\gamma, \psi, D^{(f)}\psi\right) - \frac{i}{2}\bar{\psi}\left({}^{*}\gamma \wedge K - K \wedge^{*}\gamma\right)\psi + A \wedge j \\ &= L\left(\gamma, \psi, D^{(\dagger}\psi\right) + \frac{1}{4}\mathscr{A} \wedge j_5 + A \wedge j \\ &= L\left(\gamma, \psi, D^{(i)}\psi\right) - T^{\alpha} \wedge \mu_{\alpha} + A \wedge j. \end{aligned}$$ | $$\begin{aligned} L_{\mathrm{D}} &= L(\gamma, \psi, D^{\{\}}\psi) - \frac{i}{2}\overline{\psi}\left({}^{*}\gamma \wedge K - K \wedge {}^{*}\gamma\right)\psi + A \wedge j \\ &= L(\gamma, \psi, D^{\{\}}\psi) + \frac{1}{4}\mathscr{A} \wedge j_5 + A \wedge j \\ &= L(\gamma, \psi, D^{\{\}}\psi) - T^{\alpha} \wedge \mu_{\alpha} + A \wedge j\,. \end{aligned}$$ |
| mielke-geometrodynamics_EQ0787 (11.3.6) | 248 | 0.258 | i \gamma \wedge^{*} D^{[1} \psi-6 \ell^{* 2} \gamma^{n+1} \gamma \wedge{ }^{*}\left(\bar{\psi} \gamma^{n+1} \gamma \psi\right) \psi-m \psi \eta=0 | $i\gamma \wedge^{*} D^{[1}\psi - 6\ell^{*2}\gamma^{n+1}\gamma \wedge^{*}\left(\bar{\psi}\gamma^{n+1}\gamma\psi\right)\psi - m\psi\eta = 0$ | $i\gamma \wedge {}^{*}D^{\{\}}\psi - 6\ell^{*2}\gamma^{n+1}\gamma \wedge {}^{*}(\overline{\psi}\gamma^{n+1}\gamma\psi)\psi - m\psi\eta = 0$, |

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| mielke-geometrodynamics_EQ1078 (A.3) | 365 | 0.258 | `\begin{aligned} & \left(\sigma^{a}\right)^{ \mathrm{T}}:=\left(\begin{array}{l} \left.\sigma^{0}, \sigma^{k}\right) \quad k=1,2,3 \\ \sigma^{0}:= \left(\begin{array}{ll} 1 & 0 \\ 0 & 1 \end{array} \right) \equiv \mathbb{1}, \quad \sigma^{1}:=\left( \begin{array}{ll} 0 & 1 \\ 1 & 0 \end{array}\right) \\ \sigma^{2}:=\left(\begin{array}{rr} 0 & -i \\ i & 0 \end{array}\right), \quad \sigma^{3}:=\left( \begin{array}{rr} 1 & 0 \\ 0 & -1 \end{array}\right) . \end{array} . .\right. \end{aligned}` | $(\sigma^a)^{\mathrm{T}} := \left( \begin{array}{l} \left.\sigma^{0}, \sigma^{k}\right) \quad k=1,2,3 \\ \sigma^{0}:= \left(\begin{array}{ll} 1 & 0 \\ 0 & 1 \end{array} \right) \equiv \mathbb{1}, \quad \sigma^{1}:=\left( \begin{array}{ll} 0 & 1 \\ 1 & 0 \end{array}\right) \\ \sigma^{2}:=\left(\begin{array}{rr} 0 & -i \\ i & 0 \end{array}\right), \quad \sigma^{3}:=\left( \begin{array}{rr} 1 & 0 \\ 0 & -1 \end{array}\right) . \end{array} \right. .$ | $(\sigma^a)^{\mathrm{T}} := (\sigma^0, \sigma^k) \quad k = 1, 2, 3.$ $\sigma^0 := \begin{pmatrix} 1 & 0 \\ 0 & 1 \end{pmatrix} \equiv \mathbb{1},\ \sigma^1 := \begin{pmatrix} 0 & 1 \\ 1 & 0 \end{pmatrix},$ $\sigma^2 := \begin{pmatrix} 0 & -i \\ i & 0 \end{pmatrix}, \quad \sigma^3 := \begin{pmatrix} 1 & 0 \\ 0 & -1 \end{pmatrix}.$ |
| mielke-geometrodynamics_EQ0018 (2.3.4) | 37 | 0.261 | `\delta:\left\{\left.\begin{array}{lll} G \times P & \rightarrow & P \\ w & \psi & \psi \\ g_{p} \cdot & p_{ \circ}=p \end{array} \right\rvert\, e \cdot p_{\circ}=p_{ \circ} \in P\right\} .` | $\delta : \left\{ \begin{array}{lll} G \times P & \rightarrow & P \\ w & \psi & \psi \\ g_p \cdot & p_\circ = p \end{array} \middle\vert\, e \cdot p_\circ = p_\circ \in P \right\}.$ | $\delta : \left\{ \begin{array}{lll} G \times P & \rightarrow & P \\ w & \psi & \psi \\ g_p \cdot & p_\circ = p \end{array} \middle\vert\, e \cdot p_\circ = p_\circ \in P \right\}.$ |
| mielke-geometrodynamics_EQ0544 (8.3.5) | 177 | 0.261 | `\left.\left.\left.\exp (\zeta\rfloor):=\mathbf{1}+\zeta \rfloor+\frac{1}{2!} \zeta\right\rfloor \zeta\right \rfloor+\frac{1}{3!} \zeta \J \zeta \J \zeta\right\rfloor+ \cdots .` | $\exp(\zeta\rfloor) := \mathbf{1} + \zeta\rfloor + \frac{1}{2!}\zeta\rfloor\zeta\rfloor + \frac{1}{3!}\zeta\rfloor\zeta\rfloor\zeta\rfloor + \cdots .$ | $\exp(\zeta\rfloor) := \mathbf{1} + \zeta\rfloor + \frac{1}{2!}\zeta\rfloor\zeta\rfloor + \frac{1}{3!}\zeta\rfloor\zeta\rfloor\zeta\rfloor + \cdots .$ |
| mielke-geometrodynamics_EQ0605 (9.2.4) | 199 | 0.263 | `\left.\chi(M):=\sum_{p=0}^{n}(-1)^{p} b_{p}=\int_{M}{ }^{*} \pi^{( } \gamma_{2}^{g}\right)` | $\chi(M) := \sum_{p=0}^{n}(-1)^p b_p = \int_M {}^*\pi^{(}\gamma_2^g\Big)$ | $\chi(M) := \sum_{p=0}^{n}(-1)^p b_p = \int_M \overset{*}{\pi}(\gamma_2^g)$ |
| mielke-geometrodynamics_EQ0627 (10.1.15) | 211 | 0.271 | `E_{\alpha}:=\frac{\partial L}{\partial \vartheta^{ \alpha}}=e_{\alpha} \downharpoonleft L+\left(e_{ \alpha} \downharpoonleft T^{\beta}\right) \wedge H_{ \beta}+2(-1)^{s}\left(e_{\alpha} \downharpoonleft R^{ \star \beta}\right) \wedge H_{\beta}^{\star},` | $E_\alpha := \frac{\partial L}{\partial \vartheta^\alpha} = e_\alpha \lrcorner L + \left(e_\alpha \lrcorner T^\beta\right) \wedge H_\beta + 2(-1)^s \left(e_\alpha \lrcorner R^{\star\beta}\right) \wedge H^\star_\beta,$ | $E_\alpha := \frac{\partial L}{\partial \vartheta^\alpha} = e_\alpha\rfloor L + (e_\alpha\rfloor T^\beta) \wedge H_\beta + 2(-1)^s (e_\alpha\rfloor R^{\star\beta}) \wedge H^\star_\beta,$ |
| mielke-geometrodynamics_EQ0979 (14.2.20) | 316 | 0.272 | `\hat{\ell}=\left({ }^{+}\right) \ell^{*} / \sqrt{ \alpha_{g}}=(\stackrel{+}{-}) \ell^{*} \frac{\sqrt{ \hbar c}}{g}` | $\hat{\ell} = \left({}^{+}\right) \ell^* / \sqrt{\alpha_g} = (\overset{+}{-})\ell^* \frac{\sqrt{\hbar c}}{g}$ | $\hat{\ell} = (\overset{+}{-})\ell^* \Big/ \sqrt{\alpha_g} = (\overset{+}{-})\ell^* \frac{\sqrt{\hbar c}}{g}$ |
| mielke-geometrodynamics_EQ0654 (10.3.11) | 216 | 0.274 | `\left.\left.E_{\alpha}=e_{\alpha} \downharpoonleft L+\left[\left(e_{\alpha} \downharpoonleft T^{\beta} \right)+(-1)^{s} 2 \delta \ell\left(e_{\alpha}\right. \rfloor R^{\star \beta}\right)\right] \wedge H_{ \beta}+(-1)^{s} \frac{2 \gamma}{\ell}\left(e_{\alpha} \right\rfloor R^{\star \beta}\right) \wedge \vartheta_{ \beta},` | $E_\alpha = e_\alpha \lrcorner L + \left[\left(e_\alpha \lrcorner T^\beta\right) + (-1)^s 2\delta\ell \left(e_\alpha\rfloor R^{\star\beta}\right)\right] \wedge H_\beta + (-1)^s \frac{2\gamma}{\ell} \left(e_\alpha\rfloor R^{\star\beta}\right) \wedge \vartheta_\beta,$ | $E_\alpha = e_\alpha\rfloor L + \left[(e_\alpha\rfloor T^\beta) + (-1)^s 2\delta\ell (e_\alpha\rfloor R^{\star\beta})\right] \wedge H_\beta + (-1)^s \frac{2\gamma}{\ell} (e_\alpha\rfloor R^{\star\beta}) \wedge \vartheta_\beta,$ |
| mielke-geometrodynamics_EQ0268 (4.3.33) | 95 | 0.276 | `R_{i[j \kappa l]}^{(l)} \equiv 0` | $R^{(l)}_{i[j\kappa l]} \equiv 0$ | $R^{(l)}_{i[j\kappa l]} \equiv 0$ |
| mielke-geometrodynamics_EQ0639 (10.2.10) | 213 | 0.278 | `R_{\alpha}^{\{i \star}=-\Lambda_{\text {eff }} \eta_{ \alpha},` | $R_\alpha^{\{i\star} = -\Lambda_{\text{eff}}\, \eta_\alpha,$ | $R_\alpha^{()\star} = -\Lambda_{\text{eff}}\ \eta_\alpha\,,$ |

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| mielke-geometrodynamics_EQ0527 (7.7.47) | 168 | ■0.282 | `\begin{aligned} L_{\mathrm{Pontr}}:= & d C_{\mathrm{RR}}= \frac{1}{2} R_{\alpha}{ }^{\beta} \wedge R_{\beta}{ }^{ \alpha}=-\frac{1}{2} R_{\alpha \beta}^{\{ \}} \wedge R^{ \{j \alpha \beta} \\ & -\frac{1}{12} d\left[{ }^{*} \mathscr{A} \wedge R^{\{ \}}-\frac{1}{3} \mathscr{A} \wedge d \mathscr{A}+\frac{1}{9}{ }^{*} \mathscr{A} \wedge^{*}\left(\mathscr{A} \wedge{ }^{*} \mathscr{A} \right)\right] . \end{aligned}` | $L_{\mathrm{Pontr}} := dC_{\mathrm{RR}} = \frac{1}{2} R_{\alpha}{}^{\beta} \wedge R_{\beta}{}^{\alpha} = -\frac{1}{2} R^{\{\}}_{\alpha\beta} \wedge R^{\{j\alpha\beta} \\ -\frac{1}{12} d\left[{}^{*}\mathscr{A} \wedge R^{\{\}} - \frac{1}{3}\mathscr{A} \wedge d\mathscr{A} + \frac{1}{9}{}^{*}\mathscr{A} \wedge^{*} (\mathscr{A} \wedge {}^{*}\mathscr{A})\right].$ | $L_{\mathrm{Pontr}} := dC_{\mathrm{RR}} = \frac{1}{2} R_{\alpha}{}^{\beta} \wedge R_{\beta}{}^{\alpha} = -\frac{1}{2} R^{\{\}}_{\alpha\beta} \wedge R^{\{\}\alpha\beta} \quad ( \\ -\frac{1}{12} d\left[{}^{*}\mathscr{A} \wedge R^{\{\}} - \frac{1}{3}\mathscr{A} \wedge d\mathscr{A} + \frac{1}{9}{}^{*}\mathscr{A} \wedge^{*} (\mathscr{A} \wedge {}^{*}\mathscr{A})\right].$ |
| mielke-geometrodynamics_EQ0942 (14.1.23) | 306 | ■0.287 | `\xi \wedge{ }^{*} \xi= \pm \frac{\Omega \wedge{ }^{*} \Omega \operatorname{Tr}^{*}\left(\Omega \wedge{ }^{*} \Omega\right)-(-1)^{2 z} \Omega \wedge \Omega \operatorname{Tr}^{*}(\Omega \wedge \Omega)}{\sqrt{\left( \operatorname{Tr}^{*}\left(\Omega \wedge{ }^{*} \Omega \right)\right)^{2}+(-1)^{2 z}\left(\operatorname{Tr}^{*}( \Omega \wedge \Omega)\right)^{2}}} .` | $\xi \wedge {}^{*}\xi = \pm \frac{\Omega \wedge {}^{*}\Omega \operatorname{Tr}^{*}(\Omega \wedge {}^{*}\Omega) - (-1)^{2z} \Omega \wedge \Omega \operatorname{Tr}^{*}(\Omega \wedge \Omega)}{\sqrt{\left(\operatorname{Tr}^{*}(\Omega \wedge {}^{*}\Omega)\right)^{2} + (-1)^{2z}\left(\operatorname{Tr}^{*}(\Omega \wedge \Omega)\right)^{2}}}.$ | $\xi \wedge {}^{*}\xi = \pm \frac{\Omega \wedge {}^{*}\Omega \operatorname{Tr}^{*}(\Omega \wedge {}^{*}\Omega) - (-1)^{2z} \Omega \wedge \Omega \operatorname{Tr}^{*}(\Omega \wedge \Omega)}{\sqrt{(\operatorname{Tr}^{*}(\Omega \wedge {}^{*}\Omega))^{2} + (-1)^{2z}(\operatorname{Tr}^{*}(\Omega \wedge \Omega))^{2}}}.$ |
| mielke-geometrodynamics_EQ0440 (6.8.11) | 143 | ■0.288 | `\left.D \Sigma_{\alpha} \cong\left(e_{\alpha} \downharpoonleft T^{\gamma}\right) \wedge \Sigma_{ \gamma}+\left(e_{\alpha}\right\rfloor R^{\gamma \delta} \right) \wedge \tau_{\gamma \delta}` | $D\Sigma_{\alpha} \cong (e_{\alpha} \downharpoonleft T^{\gamma}) \wedge \Sigma_{\gamma} + (e_{\alpha}\rfloor R^{\gamma\delta}) \wedge \tau_{\gamma\delta}$ | $D\Sigma_{\alpha} \cong (e_{\alpha}\rfloor T^{\gamma}) \wedge \Sigma_{\gamma} + (e_{\alpha}\rfloor R^{\gamma\delta}) \wedge \tau_{\gamma\delta}$ |
| mielke-geometrodynamics_EQ0315 (4.6.7) | 105 | ■0.292 | `\Delta \Phi(\widetilde{\widetilde{\Gamma}}, \gamma) \simeq \frac{i}{\hbar} \int_{S}\left(R^{(T) \alpha} P_{ \alpha}+R_{\alpha}^{(L) \beta} L_{\beta}^{\alpha}\right)` | $\Delta\Phi(\widetilde{\widetilde{\Gamma}}, \gamma) \simeq \frac{i}{\hbar} \int_{S} \left(R^{(T)\alpha} P_{\alpha} + R^{(L)\beta}_{\alpha} L^{\alpha}_{\beta}\right)$ | $\Delta\Phi(\widetilde{\widetilde{\Gamma}}, \gamma) \simeq \frac{i}{\hbar} \int_{S} (R^{(T)\alpha} P_{\alpha} + R^{(L)\beta}_{\alpha} L^{\alpha}{}_{\beta}).$ |
| mielke-geometrodynamics_EQ0965 (14.2.5) | 313 | ■0.299 | `\begin{aligned} & \stackrel{\circ}{\Theta}:=\dot{d} \stackrel{\circ}{\vartheta}-[\stackrel{\circ}{\omega}, \stackrel{\circ}{\vartheta}]=(1-2 b) \stackrel{\circ}{ \vartheta} \wedge \stackrel{\circ}{\vartheta}, \\ & \stackrel{\circ}{\Omega}:=\dot{d} \stackrel{\circ}{ \omega}-\stackrel{\circ}{\omega} \wedge \stackrel{ \circ}{\omega}=b(1-b) \stackrel{\circ}{\vartheta} \wedge \stackrel{\circ}{\vartheta} . \end{aligned}` | $\overset{\circ}{\Theta} := \dot{d}\overset{\circ}{\vartheta} - [\overset{\circ}{\omega}, \overset{\circ}{\vartheta}] = (1-2b)\overset{\circ}{\vartheta} \wedge \overset{\circ}{\vartheta}, \\ \overset{\circ}{\Omega} := \dot{d}\overset{\circ}{\omega} - \overset{\circ}{\omega} \wedge \overset{\circ}{\omega} = b(1-b)\overset{\circ}{\vartheta} \wedge \overset{\circ}{\vartheta}.$ | $\overset{\circ}{\Theta} := \dot{d}\overset{\circ}{\vartheta} - [\overset{\circ}{\omega}, \overset{\circ}{\vartheta}] = (1-2b)\overset{\circ}{\vartheta} \wedge \overset{\circ}{\vartheta}, \\ \overset{\circ}{\Omega} := \dot{d}\overset{\circ}{\omega} - \overset{\circ}{\omega} \wedge \overset{\circ}{\omega} = b(1-b)\overset{\circ}{\vartheta} \wedge \overset{\circ}{\vartheta}.$ |
| mielke-geometrodynamics_EQ0226 (4.2.19) | 87 | ■0.299 | `\begin{aligned} A^{-1} \omega^{\mathrm{T}} & =A^{-1} \widetilde{\vartheta}-G^{-1} D G^{A^{-1}} \widetilde{ \varphi} \\ & =G^{-1} \widetilde{\vartheta}-G^{-1} D \widetilde{\varphi}, \end{aligned}` | $A^{-1}\omega^{\mathrm{T}} = A^{-1}\widetilde{\vartheta} - G^{-1}DG^{A^{-1}}\widetilde{\varphi} \\ = G^{-1}\widetilde{\vartheta} - G^{-1}D\widetilde{\varphi},$ | ${}^{A^{-1}}\omega^{\mathrm{T}} = {}^{A^{-1}}\widetilde{\widetilde{\vartheta}} - G^{-1}DG^{A^{-1}}\widetilde{\widetilde{\varphi}} \\ = G^{-1}\widetilde{\widetilde{\vartheta}} - G^{-1}D\widetilde{\widetilde{\varphi}},$ |
| mielke-geometrodynamics_EQ0407 (6.4.27) | 135 | ■0.315 | `\Psi_{\Lambda}(A)=\exp \left(\frac{3}{\Lambda} \int_{M_{3}} \stackrel{( \pm)}{C}_{\mathrm{RR}}( \} \right),` | $\Psi_{\Lambda}(A) = \exp\left(\frac{3}{\Lambda} \int_{M_3} \overset{(\pm)}{C}{}_{\mathrm{RR}}(\}\right),$ | $\Psi_{\Lambda}(A) = \exp\left(\frac{3}{\Lambda} \int_{M_3} \overset{(\pm)}{C}{}_{\mathrm{RR}}\{\}\right),$ |

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| mielke-geometrodynamics_EQ0196 (4.1.8) | 82 | 0.322 | `\begin{aligned} & {\left[P_{\alpha}, P_{\beta}=0\right] \quad\left(P_{\alpha}:=\partial / \partial x^{\alpha} \right),} \\ & {\left[P_{\alpha}, L_{\gamma \delta} \right]=g_{\alpha \delta} P_{\gamma}-g_{\alpha \gamma} P \delta,} \\ & {\left[L_{\alpha \beta}, L_{\gamma \delta}\right]=c_{\alpha \beta \gamma \delta}{ }^{ \varepsilon} L_{\varepsilon \gamma},} \\ & c_{\alpha \beta \delta \gamma} \delta_{\alpha \delta}^{[\varepsilon} \delta_{\delta}^{\zeta]} \eta_{\beta \gamma)} . \end{aligned}` | $[P_\alpha, P_\beta = 0] \quad (P_\alpha := \partial/\partial x^\alpha)$, $[P_\alpha, L_{\gamma\delta}] = g_{\alpha\delta} P_\gamma - g_{\alpha\gamma} P\delta$, $[L_{\alpha\beta}, L_{\gamma\delta}] = c_{\alpha\beta\gamma\delta}{}^{\varepsilon} L_{\varepsilon\gamma}$, $c_{\alpha\beta\delta\gamma} \delta_{\alpha\delta}^{[\varepsilon} \delta_{\delta}^{\zeta]} \eta_{\beta\gamma)}$. | $[P_\alpha, P_\beta = 0] \quad (P_\alpha := \partial/\partial x^\alpha)$, $[P_\alpha, L_{\gamma\delta}] = g_{\alpha\delta} P_\gamma - g_{\alpha\gamma} P\delta$, $[L_{\alpha\beta}, L_{\gamma\delta}] = c_{\alpha\beta\gamma\delta}{}^{\varepsilon\ \xi} L_{\varepsilon\gamma}$, $c_{\alpha\beta\delta\gamma}{}^{\varepsilon\zeta} := \delta_{(\alpha}^{[\varepsilon} \delta_{\delta}^{\zeta]} \eta_{\beta\gamma)}$. |
| mielke-geometrodynamics_EQ0597 (9.1.15) | 196 | 0.323 | `\left[\mathrm{T}_{\alpha \beta}{ }^{\gamma}\right]= \left[\begin{array}{cccc} f & -h & \cdot & \cdot \\ \cdot & \cdot & -k & \cdot \\ \cdot & \cdot & \cdot & -k \\ \cdot & \cdot & \cdot & \cdot \\ \cdot & \cdot & \cdot & -g \\ \cdot & & g & \cdot \\ 0 & 1 & 2 & 3 \end{array} \begin{array}{c} 01 \\ 02 \\ 03 \\ 23 \\ 31 \\ 12 \end{array}\right.` | $\left[\mathrm{T}_{\alpha\beta}{}^{\gamma}\right] = \left[\begin{array}{cccc} f & -h & \cdot & \cdot \\ \cdot & \cdot & -k & \cdot \\ \cdot & \cdot & \cdot & -k \\ \cdot & \cdot & \cdot & \cdot \\ \cdot & \cdot & \cdot & -g \\ \cdot & & g & \cdot \\ 0 & 1 & 2 & 3 \end{array}\right. \begin{array}{c} 01 \\ 02 \\ 03 \\ 23 \\ 31 \\ 12 \end{array}$ | $\left[\mathrm{T}_{\alpha\beta}{}^{\gamma}\right] = \begin{array}{c} \left[\begin{array}{cccc} f & -h & \cdot & \cdot \\ \cdot & \cdot & -k & \cdot \\ \cdot & \cdot & \cdot & -k \\ \cdot & \cdot & \cdot & \cdot \\ \cdot & \cdot & \cdot & -g \\ \cdot & \cdot & g & \cdot \end{array}\right] \begin{array}{c} 01 \\ 02 \\ 03 \\ 23 \\ 31 \\ 12 \end{array} \\ \begin{array}{cccc} 0 & 1 & 2 & 3 \end{array} \end{array}$ |
| mielke-geometrodynamics_EQ0803 (11.4.15) | 255 | 0.324 | `\psi=\frac{4}{\ell}\left(\frac{2 \pi m}{3}\right)^{1 / 2} e^{-\mu / 2-\nu / 4-i \omega m t}\left[\begin{array}{cc} i H(\rho) & x_{\kappa}^{m} \\ F(\rho) & \frac{\vec{ \sigma} \cdot \vec{x}}{|\vec{x}|} x_{\kappa}^{m} \end{array}\right] .` | $\psi = \frac{4}{\ell}\left(\frac{2\pi m}{3}\right)^{1/2} e^{-\mu/2-\nu/4-i\omega mt} \left[\begin{array}{cc} iH(\rho) & x_\kappa^m \\ F(\rho) & \frac{\vec{\sigma}\cdot\vec{x}}{\lvert\vec{x}\rvert} x_\kappa^m \end{array}\right]$. | $\psi = \frac{4}{\ell}\left(\frac{2\pi m}{3}\right)^{1/2} e^{-\mu/2-\nu/4-i\omega mt} \left[\begin{array}{cc} iH(\rho) & x_\kappa^m \\ F(\rho) & \frac{\vec{\sigma}\cdot\vec{x}}{\lvert\vec{x}\rvert} x_\kappa^m \end{array}\right]$. |
| mielke-geometrodynamics_EQ1082 (A.7) | 365 | 0.326 | `\begin{aligned} & \gamma^{0}:=\left(\begin{array}{cc} \sigma^{0} & 0 \\ 0 & \sigma^{0} \end{array}\right), \quad \gamma^{k}:=\left(\begin{array}{cc} 0 & \sigma^{k} \\ -\sigma^{k} & 0 \end{array}\right) ; \\ & \gamma^{5}:=i \gamma^{\circ} \gamma^{1} \gamma^{2} \gamma^{3}=\left(\begin{array}{cc} 0 & \sigma^{0} \\ \sigma^{0} & 0 \end{array}\right) . \end{aligned}` | $\gamma^0 := \begin{pmatrix} \sigma^0 & 0 \\ 0 & \sigma^0 \end{pmatrix}, \quad \gamma^k := \begin{pmatrix} 0 & \sigma^k \\ -\sigma^k & 0 \end{pmatrix}$; $\gamma^5 := i\gamma^\circ\gamma^1\gamma^2\gamma^3 = \begin{pmatrix} 0 & \sigma^0 \\ \sigma^0 & 0 \end{pmatrix}$. | $\gamma^0 := \begin{pmatrix} \sigma^0 & 0 \\ 0 & \sigma^0 \end{pmatrix}, \quad \gamma^k := \begin{pmatrix} 0 & \sigma^k \\ -\sigma^k & 0 \end{pmatrix}$; $\gamma^5 := i\gamma^\circ\gamma^1\gamma^2\gamma^3 = \begin{pmatrix} 0 & \sigma^0 \\ \sigma^0 & 0 \end{pmatrix}$. |
| mielke-geometrodynamics_EQ0978 (14.2.19) | 316 | 0.331 | `\begin{aligned} \pi \hat{L}_{\\|} & =-\frac{\hat{ \ell}^{2}}{\ell^{* 2}} \operatorname{Tr}(\Omega^{ \prime} \wedge{ }^{*} \Omega^{\prime} \wedge \underbrace{ \stackrel{\circ}{\vartheta} \wedge \cdots \wedge \stackrel{\circ}{\vartheta}}_{\mathrm{K} \text { terms }}) \\ & =-\frac{1}{\alpha_{g}} \operatorname{Tr}\left( \Omega^{\prime} \wedge^{*} \Omega^{\prime}\right) \sqrt{ \operatorname{det} \stackrel{\circ}{g}}=L_{\mathrm{YM}}^{ \prime} d_{\mu}(G) \end{aligned}` | $\pi\hat{L}_{\parallel} = -\frac{\hat{\ell}^2}{\ell^{*2}} \mathrm{Tr}(\Omega' \wedge {}^*\Omega' \wedge \underbrace{\overset{\circ}{\vartheta} \wedge \cdots \wedge \overset{\circ}{\vartheta}}_{\text{K terms}})$ $= -\frac{1}{\alpha_g} \mathrm{Tr}\left(\Omega' \wedge {}^*\Omega'\right) \sqrt{\det \overset{\circ}{g}} = L'_{\mathrm{YM}} d_\mu(G)$ | $\pi\hat{L}_{\parallel} = -\frac{\hat{\ell}^2}{\ell^{*2}} \mathrm{Tr}(\Omega' \wedge {}^*\Omega' \wedge \underbrace{\overset{\circ}{\vartheta} \wedge \cdots \wedge \overset{\circ}{\vartheta}}_{\text{K terms}})$ $= -\frac{1}{\alpha_g} \mathrm{Tr}(\Omega' \wedge {}^*\Omega') \sqrt{\det \overset{\circ}{g}} = L'_{\mathrm{YM}} d_\mu(G)$ |

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| mielke-geometrodynamics_EQ0579 (8.6.17) | 186 | ■0.351 | \left.\left.\left.2 D\left(e^{\beta}\right\rfloor D H_{ \alpha \beta}-\frac{1}{4} \vartheta_{\alpha} \wedge e^{ \gamma}\right\rfloor e^{\delta}\right\lrcorner D H_{ \gamma \delta}\right)-E_{\alpha}=\Sigma_{\alpha}-D \mu_{ \alpha}, | $2D\left(e^{\beta}\rfloor DH_{\alpha\beta}-\frac{1}{4}\vartheta_{\alpha}\wedge e^{\gamma}\rfloor e^{\delta}\rfloor DH_{\gamma\delta}\right)-E_{\alpha}=\Sigma_{\alpha}-D\mu_{\alpha},$ | $2D\left(e^{\beta}\rfloor DH_{\alpha\beta}-\frac{1}{4}\vartheta_{\alpha}\wedge e^{\gamma}\rfloor e^{\delta}\rfloor DH_{\gamma\delta}\right)-E_{\alpha}=\Sigma_{\alpha}-D\mu_{\alpha}\,,$ |
| mielke-geometrodynamics_EQ0956 (14.1.38) | 309 | ■0.353 | \begin{aligned} d \delta & =(-1)^{-z *} \Sigma_{ \mathrm{YM}}(\Omega) \wedge D \Sigma_{\mathrm{YM}}( \Omega) /{ }^{*}\left({ }^{*} \Sigma_{\mathrm{YM}} \wedge \Sigma_{\mathrm{YM}}\right) \\ & =(-1)^{-z *}\left( \vartheta \wedge^{*} \Omega^{g}\right) \wedge D\left( \vartheta \wedge^{*} \Omega^{g}\right) /{ }^{*}\left( \vartheta \wedge^{*} \Omega^{g} \wedge^{*}\left(\vartheta \wedge^{*} \Omega^{g}\right)\right) . \end{aligned} | $\begin{aligned} d\delta &= (-1)^{-z\,*}\Sigma_{\mathrm{YM}}(\Omega)\wedge D\Sigma_{\mathrm{YM}}(\Omega)/^{*}\left({}^{*}\Sigma_{\mathrm{YM}}\wedge\Sigma_{\mathrm{YM}}\right) \\ &= (-1)^{-z\,*}\left(\vartheta\wedge^{*}\Omega^{g}\right)\wedge D\left(\vartheta\wedge^{*}\Omega^{g}\right)/^{*}\left(\vartheta\wedge^{*}\Omega^{g}\wedge^{*}\left(\vartheta\wedge^{*}\Omega^{g}\right)\right). \end{aligned}$ | $\begin{aligned} d\delta &= (-1)^{-z\,*}\Sigma_{\mathrm{YM}}(\Omega)\wedge D\Sigma_{\mathrm{YM}}(\Omega)/^{*}\left({}^{*}\Sigma_{\mathrm{YM}}\wedge\Sigma_{\mathrm{YM}}\right) \\ &= (-1)^{-z\,*}\left(\vartheta\wedge^{*}\Omega^{g}\right)\wedge D\left(\vartheta\wedge^{*}\Omega^{g}\right)/^{*}\left(\vartheta\wedge^{*}\Omega^{g}\wedge^{*}\left(\vartheta\wedge^{*}\Omega^{g}\right)\right). \end{aligned}$ |
| mielke-geometrodynamics_EQ0555 (8.4.9) | 180 | ■0.371 | \left.\left.E_{\alpha}=\frac{1}{2} \operatorname{Tr}\left(\stackrel{ \pm}{\Omega}^{g} \wedge e_{\alpha}\right\rfloor^{*} \stackrel{ \pm}{\Omega}^{g}-e_{\alpha}\right\rfloor^{ \pm} \stackrel{ }{\Omega}^{g} \wedge{ }^{*} \stackrel{ \pm}{\Omega}^{g}\right)=0, | $E_{\alpha}=\frac{1}{2}\operatorname{Tr}\left(\overset{\pm}{\Omega}{}^{g}\wedge e_{\alpha}\rfloor{}^{*}\overset{\pm}{\Omega}{}^{g}-e_{\alpha}\rfloor\overset{\pm}{\Omega}{}^{g}\wedge{}^{*}\overset{\pm}{\Omega}{}^{g}\right)=0,$ | $E_{\alpha}=\frac{1}{2}\operatorname{Tr}\left(\overset{\pm}{\Omega}{}^{g}\wedge e_{\alpha}\rfloor{}^{*}\overset{\pm}{\Omega}{}^{g}-e_{\alpha}\rfloor\overset{\pm}{\Omega}{}^{g}\wedge{}^{*}\overset{\pm}{\Omega}{}^{g}\right)=0,$ |
| mielke-geometrodynamics_EQ0562 (8.5.5) | 182 | ■0.377 | \begin{aligned} \widetilde{L}_{\mathrm{SKY}}^{(\star)} & =\frac{1}{2} \operatorname{Tr}\left[\left(\mathcal{ \Omega}^{g}-i \frac{\theta_{\mathrm{T}}^{*}}{4 \ell^{2}} \sigma\right) \wedge^{*}\left(\stackrel{t}{\Omega}^{g}-i \frac{\theta_{\mathrm{T}}^{*}}{4 \ell^{2}} \sigma\right) \right] \\ & =-\frac{\theta_{\mathrm{T}}^{*}}{2 \ell^{2}} R^{\alpha \beta} \wedge \eta_{\alpha \beta}+\theta_{ \mathrm{T}}^{*} \Lambda_{\text {eff }} \eta-\frac{1}{2} R^{\alpha \beta} \wedge{ }^{*} R_{\alpha \beta} \mp \frac{(-1)^{\mathrm{sig}}}{2} R^{\alpha \beta} \wedge R_{ \alpha \beta}^{(\star)} \end{aligned} | $\begin{aligned} \widetilde{L}_{\mathrm{SKY}}^{(\star)} &= \frac{1}{2}\operatorname{Tr}\left[\left(\overset{\pm}{\Omega}{}^{g}-i\frac{\theta_{\mathrm{T}}^{*}}{4\ell^{2}}\sigma\right)\wedge{}^{*}\left(\overset{\pm}{\Omega}{}^{g}-i\frac{\theta_{\mathrm{T}}^{*}}{4\ell^{2}}\sigma\right)\right] \\ &= -\frac{\theta_{\mathrm{T}}^{*}}{2\ell^{2}}R^{\alpha\beta}\wedge\eta_{\alpha\beta}+\theta_{\mathrm{T}}^{*}\Lambda_{\mathrm{eff}}\,\eta-\frac{1}{2}R^{\alpha\beta}\wedge{}^{*}R_{\alpha\beta}\mp\frac{(-1)^{\mathrm{sig}}}{2}R^{\alpha\beta}\wedge R_{\alpha\beta}^{(\star)}. \end{aligned}$ (8.5 | $\begin{aligned} \widetilde{L}_{\mathrm{SKY}}^{(\star)} &= \frac{1}{2}\operatorname{Tr}\left[\left(\overset{\pm}{\Omega}{}^{g}-i\frac{\theta_{\mathrm{T}}^{*}}{4\ell^{2}}\sigma\right)\wedge{}^{*}\left(\overset{\pm}{\Omega}{}^{g}-i\frac{\theta_{\mathrm{T}}^{*}}{4\ell^{2}}\sigma\right)\right] \\ &= -\frac{\theta_{\mathrm{T}}^{*}}{2\ell^{2}}R^{\alpha\beta}\wedge\eta_{\alpha\beta}+\theta_{\mathrm{T}}^{*}\Lambda_{\mathrm{eff}}\,\eta-\frac{1}{2}R^{\alpha\beta}\wedge{}^{*}R_{\alpha\beta}\mp\frac{(-1)^{\mathrm{sig}}}{2}R^{\alpha\beta}\wedge R_{\alpha\beta}^{(\star)}. \end{aligned}$ |
| mielke-geometrodynamics_EQ0393 (6.4.8) | 132 | ■0.382 | \begin{aligned} n^{\alpha} \Sigma_{\alpha} & \left. \left.=n \downharpoonleft L-\left(\mathrm{t}_{n} \Psi \right) \wedge \frac{\partial L}{\partial D \Psi}-(n \rfloor \Psi\right) \wedge \frac{\delta L}{\delta \Psi}+D[(n\rfloor \Psi) \wedge \frac{\partial L}{\partial D \Psi}\right] \\ & \left.\cong n\rfloor L-\left(\ell_{n} \Psi+\Gamma_{\perp}^{\alpha \beta} \rho\left(I_{\alpha \beta}\right) \Psi\right) \wedge \frac{\partial L}{\partial D \Psi}+D[(n\rfloor \Psi) \wedge \frac{\partial L}{\partial D \Psi}\right] . \end{aligned} | $\begin{aligned} n^{\alpha}\Sigma_{\alpha} &= n\downharpoonleft L-(\mathfrak{t}_{n}\Psi)\wedge\frac{\partial L}{\partial D\Psi}-(n\rfloor\Psi)\wedge\frac{\delta L}{\delta\Psi}+D[(n\rfloor\Psi)\wedge\frac{\partial L}{\partial D\Psi}\Big] \\ &\cong n\rfloor L-\left(\ell_{n}\Psi+\Gamma_{\perp}^{\alpha\beta}\rho\left(I_{\alpha\beta}\right)\Psi\right)\wedge\frac{\partial L}{\partial D\Psi}+D[(n\rfloor\Psi)\wedge\frac{\partial L}{\partial D\Psi}\Big]. \end{aligned}$ | $\begin{aligned} n^{\alpha}\Sigma_{\alpha} &= n\rfloor L-(\mathfrak{t}_{n}\Psi)\wedge\frac{\partial L}{\partial D\Psi}-(n\rfloor\Psi)\wedge\frac{\delta L}{\delta\Psi}+D\Big[(n\rfloor\Psi)\wedge\frac{\partial L}{\partial D\Psi}\Big] \\ &\cong n\rfloor L-\left(\ell_{n}\Psi+\Gamma_{\perp}^{\alpha\beta}\rho(I_{\alpha\beta})\Psi\right)\wedge\frac{\partial L}{\partial D\Psi}+D\Big[(n\rfloor\Psi)\wedge\frac{\partial L}{\partial D\Psi}\Big]. \end{aligned}$ |
| mielke-geometrodynamics_EQ0261 (4.3.26) | 94 | ■0.394 | K_{. \alpha \beta}^{c}=-\frac{1}{2}\left(T_{. \alpha \beta}^{c}-T_{\alpha, \beta}^{. . c}+T_{\beta . \alpha}^{. c}\right)=-K_{. \beta \alpha}^{c} . | $K_{\cdot\alpha\beta}^{c}=-\frac{1}{2}\left(T_{\cdot\alpha\beta}^{c}-T_{\alpha,\beta}^{\cdot\cdot c}+T_{\beta\cdot\alpha}^{\cdot c}\right)=-K_{\cdot\beta\alpha}^{c}.$ | $K_{\cdot\alpha\beta}^{c}=-\frac{1}{2}\left(T_{\cdot\alpha\beta}^{c}-T_{\alpha,\beta}^{\cdot\cdot c}+T_{\beta\cdot\alpha}^{\cdot c}\right)=-K_{\cdot\beta\alpha}^{c}.$ |

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| mielke-geometrodynamics_EQ0377 (6.2.28) | 128 | 0.396 | `\stackrel{( \pm)}{L}_{\\|}=-\frac{1}{2}\left[\vartheta^{ \alpha} \wedge \stackrel{( \pm)( \pm)}{D}_{\alpha}+d \left(\vartheta^{\alpha} \wedge \stackrel{( \pm)}{\Pi}_{ \alpha}\right)\right]=-\frac{1}{2}\left(\stackrel{( \pm)}{D} \vartheta^{\alpha} \wedge \stackrel{( \pm)}{ \Pi}_{\alpha},\right.` | $\overset{(\pm)}{L}_{\parallel}=-\frac{1}{2}\left[\vartheta^{\alpha}\wedge \overset{(\pm)(\pm)}{D}{}_{\alpha}+d\left(\vartheta^{\alpha}\wedge \overset{(\pm)}{\Pi}{}_{\alpha}\right)\right]=-\frac{1}{2}\left(\overset{(\pm)}{D}\vartheta^{\alpha}\wedge \overset{(\pm)}{\Pi}{}_{\alpha},\right.$ | $\overset{(\pm)}{L}_{\parallel}=-\frac{1}{2}\left[\vartheta^{\alpha}\wedge \overset{(\pm)(\pm)}{D}\overset{(\pm)}{\Pi}{}_{\alpha}+d(\vartheta^{\alpha}\wedge \overset{(\pm)}{\Pi}{}_{\alpha})\right]=-\frac{1}{2}\overset{(\pm)}{D}\vartheta^{\alpha}\wedge \overset{(\pm)}{\Pi}{}_{\alpha},$ |
| mielke-geometrodynamics_EQ0262 (4.3.27) | 94 | 0.399 | `\begin{aligned} \Omega^{g} & =\Omega^{\{ \}}-d K+K \wedge \omega^{\{ \}}+\omega^{\{ } \wedge K-K \wedge K \\ & = \Omega^{\{ \}}-D^{\{ } K-K \wedge K=\Omega^{\{ \}}-D K+K \wedge K \end{aligned}` | $\begin{aligned}\Omega^{g} &= \Omega^{\{\}}-dK+K\wedge\omega^{\{\}}+\omega^{\{}\wedge K-K\wedge K\\ &= \Omega^{\{\}}-D^{\{}K-K\wedge K=\Omega^{\{\}}-DK+K\wedge K\end{aligned}$ | $\begin{aligned}\Omega^{g} &= \Omega^{\{\}}-dK+K\wedge\omega^{\{\}}+\omega^{\{\}}\wedge K-K\wedge K\\ &= \Omega^{\{\}}-D^{\{\}}K-K\wedge K=\Omega^{\{\}}-DK+K\wedge K\end{aligned}$ |
| mielke-geometrodynamics_EQ0570 (8.6.8) | 184 | 0.403 | `\left.E_{\alpha}:=\partial L / \partial \vartheta^{ \alpha}=e_{\alpha}\right\rfloor L+\left(e_{\alpha} \downharpoonleft T^{\beta}\right) \wedge H_{\beta}+ \left(e_{\alpha} \downharpoonleft R^{\beta \gamma}\right) \wedge H_{\beta \gamma}` | $E_{\alpha}:=\partial L/\partial\vartheta^{\alpha}=e_{\alpha}\rfloor L+\left(e_{\alpha}\downharpoonleft T^{\beta}\right)\wedge H_{\beta}+\left(e_{\alpha}\downharpoonleft R^{\beta\gamma}\right)\wedge H_{\beta\gamma}$ | $E_{\alpha}:=\partial L/\partial\vartheta^{\alpha}=e_{\alpha}\rfloor L+(e_{\alpha}\rfloor T^{\beta})\wedge H_{\beta}+(e_{\alpha}\rfloor R^{\beta\gamma})\wedge H_{\beta\gamma}$ |
| mielke-geometrodynamics_EQ0306 (4.5.16) | 103 | 0.406 | `\left.\widetilde{\varepsilon}_{\mathrm{MA}}:= \varepsilon_{\mathrm{RC}}+\xi\right\lrcorner L \cong- \left(\mathscr{L}_{\xi} \Gamma_{\beta}{ }^{\gamma}\right) \wedge H^{\beta}{ }_{\gamma}+d H_{\infty}` | $\widetilde{\varepsilon}_{\mathrm{MA}}:=\varepsilon_{\mathrm{RC}}+\xi\rfloor L\cong-\left(\mathscr{L}_{\xi}\Gamma_{\beta}{}^{\gamma}\right)\wedge H^{\beta}{}_{\gamma}+dH_{\infty}$ | $\widetilde{\varepsilon}_{\mathrm{MA}}:=\varepsilon_{\mathrm{RC}}+\xi\rfloor L\cong-\left(\mathscr{L}_{\xi}\Gamma_{\beta}{}^{\gamma}\right)\wedge H^{\beta}{}_{\gamma}+dH_{\infty}$ |
| mielke-geometrodynamics_EQ0336 (5.3.13) | 114 | 0.407 | `R^{\alpha \beta}=R^{\{j \alpha \beta}-D^{\{ \}} K^{\alpha \beta}-K^{\alpha}{ }_{\mu} \wedge K^{\mu \beta}` | $R^{\alpha\beta}=R^{\{j\alpha\beta}-D^{\{\}}K^{\alpha\beta}-K^{\alpha}{}_{\mu}\wedge K^{\mu\beta}$ | $R^{\alpha\beta}=R^{\{\}\alpha\beta}-D^{\{\}}K^{\alpha\beta}-K^{\alpha}{}_{\mu}\wedge K^{\mu\beta}$ |
| mielke-geometrodynamics_EQ1136 (C.4) | 375 | 0.409 | `c_{i j}^{k}=-c_{j i}^{k}` | $c_{ij}^{k}=-c_{ji}^{k}$ | $c_{ij}{}^{k}=-c_{ji}{}^{k}$ |
| mielke-geometrodynamics_EQ0861 (12.4.8) | 279 | 0.420 | `\begin{aligned} d C_{\mathrm{RR}} & =-\operatorname{Tr}( \Omega \wedge \Omega) \\ & =\frac{1}{2} R_{\alpha \beta}^{\{ \}} \wedge R^{\{\beta \alpha \beta} \\ & + \frac{1}{12} d\left[{ }^{*} \mathcal{A} \wedge R^{\{ \}}- \frac{1}{3} \mathcal{A} \wedge d \mathcal{A}+\frac{1}{9}{ }^{*} \mathcal{A} \wedge^{*}\left(\mathcal{A} \wedge^{*} \mathcal{A}\right)\right] . \end{aligned}` | $\begin{aligned}dC_{\mathrm{RR}} &= -\operatorname{Tr}(\Omega\wedge\Omega)\\ &= \frac{1}{2}R^{\{\}}_{\alpha\beta}\wedge R^{\{\beta\alpha\beta}\\ &+\frac{1}{12}d\left[{}^{*}\mathcal{A}\wedge R^{\{\}}-\frac{1}{3}\mathcal{A}\wedge d\mathcal{A}+\frac{1}{9}{}^{*}\mathcal{A}\wedge^{*}(\mathcal{A}\wedge^{*}\mathcal{A})\right].\end{aligned}$ | $\begin{aligned}dC_{\mathrm{RR}} &= -\operatorname{Tr}(\Omega\wedge\Omega)\\ &= \frac{1}{2}R^{\{\}}_{\alpha\beta}\wedge R^{\{\}\alpha\beta}\\ &+\frac{1}{12}d\left[{}^{*}\mathcal{A}\wedge R^{\{\}}-\frac{1}{3}\mathcal{A}\wedge d\mathcal{A}+\frac{1}{9}{}^{*}\mathcal{A}\wedge^{*}(\mathcal{A}\wedge{}^{*}\mathcal{A})\right].\end{aligned}$ |
| mielke-geometrodynamics_EQ0451 (7.2.4) | 151 | 0.424 | `\stackrel{+}{\Omega}^{g}:=\frac{1}{2}\left(\Omega^{g} \pm{ }^{*} \Omega^{g(\star)}\right),` | $\overset{+}{\Omega}{}^{g}:=\frac{1}{2}\left(\Omega^{g}\pm{}^{*}\Omega^{g(\star)}\right),$ | $\overset{\pm}{\Omega}{}^{g}:=\frac{1}{2}\left(\Omega^{g}\pm{}^{*}\Omega^{g(\star)}\right),$ |
| mielke-geometrodynamics_EQ0372 (6.2.23) | 127 | 0.437 | `\left.\stackrel{( \pm)( \pm)}{D} \stackrel{(-)}{\Pi}_{ \alpha} \mp \frac{i}{4} \ell^{2} e_{\alpha}\right\rfloor \left(\stackrel{(+)}{\Pi}^{\beta} \wedge \stackrel{(-)}{ \Pi}_{\beta}\right)=\Sigma_{\alpha},` | $\overset{(\pm)(\pm)}{D}\overset{(-)}{\Pi}{}_{\alpha}\mp\frac{i}{4}\ell^{2}e_{\alpha}\rfloor\left(\overset{(+)}{\Pi}{}^{\beta}\wedge\overset{(-)}{\Pi}{}_{\beta}\right)=\Sigma_{\alpha},$ | $\overset{(\pm)(\pm)}{D}\overset{(-)}{\Pi}{}_{\alpha}\mp\frac{i}{4}\ell^{2}e_{\alpha}\rfloor\left(\overset{(+)}{\Pi}{}^{\beta}\wedge\overset{(-)}{\Pi}{}_{\beta}\right)=\Sigma_{\alpha},$ |
| mielke-geometrodynamics_EQ0997 (14.3.10) | 322 | 0.442 | `D^{(\text {int })}=\stackrel{\circ}{\gamma} \wedge^{*} \stackrel{\circ}{D}=\stackrel{\circ}{\gamma} \wedge^{*}( \stackrel{\circ}{d}+i \stackrel{\circ}{\widetilde{ \omega}})` | $D^{(\text{int})}=\overset{\circ}{\gamma}\wedge^{*}\overset{\circ}{D}=\overset{\circ}{\gamma}\wedge^{*}(\overset{\circ}{d}+i\overset{\circ}{\widetilde{\omega}})$ | $D^{(int)}=\overset{\circ}{\gamma}\wedge{}^{*}\overset{\circ}{D}=\overset{\circ}{\gamma}\wedge{}^{*}(\overset{\circ}{d}+i\overset{\circ}{\widetilde{\omega}})$ |
| mielke-geometrodynamics_EQ0474 (7.4.2) | 156 | 0.444 | `R_{\alpha \beta} \equiv C_{\alpha \beta}+\frac{1}{2} R i^{\tau}{ }_{\alpha \beta}-\frac{R}{12} \vartheta_{ \alpha} \wedge \vartheta_{\beta},` | $R_{\alpha\beta}\equiv C_{\alpha\beta}+\frac{1}{2}Ri^{\tau}{}_{\alpha\beta}-\frac{R}{12}\vartheta_{\alpha}\wedge\vartheta_{\beta},$ | $R_{\alpha\beta}\equiv C_{\alpha\beta}+\frac{1}{2}Ri^{\tau}{}_{\alpha\beta}-\frac{R}{12}\vartheta_{\alpha}\wedge\vartheta_{\beta},$ |

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| mielke-geometrodynamics_EQ0681 (10.3.38) | 221 | 0.452 | \begin{gathered} \chi=\theta_{\mathrm{L}} \varepsilon-\tilde{\theta}_{\mathrm{L}} \tilde{\varepsilon}, \quad \Lambda=\frac{(-1)^{s}}{4 \ell^{2}}\left(\theta_{\mathrm{L}} \varepsilon^{3}-\tilde{\theta}_{\mathrm{L}} \tilde{\varepsilon}^{3}\right), \quad \theta_{\mathrm{T}}=\frac{(-1)^{s}}{2}\left(\theta_{\mathrm{L}} \varepsilon^{2}-\tilde{\theta}_{\mathrm{L}} \tilde{\varepsilon}^{2}\right), \\ \Delta \theta_{\mathrm{L}}=\theta_{\mathrm{L}}-\tilde{\theta}_{\mathrm{L}}, \quad \Delta \theta_{\mathrm{TL}}=\frac{1}{2}\left(\theta_{\mathrm{L}} \varepsilon-\tilde{\theta}_{\mathrm{L}} \tilde{\varepsilon}\right) . \end{gathered} | $\chi=\theta_{\mathrm{L}} \varepsilon-\tilde{\theta}_{\mathrm{L}} \tilde{\varepsilon}, \quad \Lambda=\frac{(-1)^{s}}{4 \ell^{2}}\left(\theta_{\mathrm{L}} \varepsilon^{3}-\tilde{\theta}_{\mathrm{L}} \tilde{\varepsilon}^{3}\right), \quad \theta_{\mathrm{T}}=\frac{(-1)^{s}}{2}\left(\theta_{\mathrm{L}} \varepsilon^{2}-\tilde{\theta}_{\mathrm{L}} \tilde{\varepsilon}^{2}\right),$ $\Delta \theta_{\mathrm{L}}=\theta_{\mathrm{L}}-\tilde{\theta}_{\mathrm{L}}, \quad \Delta \theta_{\mathrm{TL}}=\frac{1}{2}\left(\theta_{\mathrm{L}} \varepsilon-\tilde{\theta}_{\mathrm{L}} \tilde{\varepsilon}\right) .$ | $\chi=\theta_{\mathrm{L}} \varepsilon-\tilde{\theta}_{\mathrm{L}} \tilde{\varepsilon}, \quad \Lambda=\frac{(-1)^{s}}{4 \ell^{2}}(\theta_{\mathrm{L}} \varepsilon^{3}-\tilde{\theta}_{\mathrm{L}} \tilde{\varepsilon}^{3}), \quad \theta_{\mathrm{T}}=\frac{(-1)^{s}}{2}(\theta_{\mathrm{L}} \varepsilon^{2}-\tilde{\theta}_{\mathrm{L}} \tilde{\varepsilon}^{2}),$ (10.3 $\Delta \theta_{\mathrm{L}}=\theta_{\mathrm{L}}-\tilde{\theta}_{\mathrm{L}}, \quad \Delta \theta_{\mathrm{TL}}=\frac{1}{2}(\theta_{\mathrm{L}} \varepsilon-\tilde{\theta}_{\mathrm{L}} \tilde{\varepsilon}).$ (10.3 |
| mielke-geometrodynamics_EQ0845 (12.2.13) | 273 | 0.457 | C_{\mathrm{TT}} \cong \frac{1}{4} j_{5}, \quad \mathscr{A}=2 \ell^{2}{ }^{*} C_{\mathrm{TT}}=\left( \ell^{2} / 2\right) \bar{\psi} \gamma_{5} \gamma \psi . | $C_{\mathrm{TT}} \cong \frac{1}{4} j_{5}, \quad \mathscr{A}=2 \ell^{2}{}^{*} C_{\mathrm{TT}}=\left(\ell^{2} / 2\right) \bar{\psi} \gamma_{5} \gamma \psi .$ | $C_{\mathrm{TT}} \cong \frac{1}{4} j_{5}, \quad \mathscr{A}=2 \ell^{2}{}^{*} C_{\mathrm{TT}}=(\ell^{2} / 2) \bar{\psi} \gamma_{5} \gamma \psi .$ |
| mielke-geometrodynamics_EQ0375 (6.2.26) | 128 | 0.466 | \stackrel{( \pm)}{L}_{\\|}=\mp \frac{i}{4} \ell^{2} \stackrel{( \pm)}{\Pi}^{\alpha} \wedge \stackrel{( \pm)}{ \Pi}_{\alpha}, \quad \stackrel{\overline{+)}}{L}_{\\|}= \stackrel{(-)}{L}_{\\|} | $\overset{(\pm)}{L}_{\parallel}=\mp \frac{i}{4} \ell^{2} \overset{(\pm)}{\Pi}{}^{\alpha} \wedge \overset{(\pm)}{\Pi}_{\alpha}, \quad \overline{\overset{(+)}{L}}_{\parallel}=\overset{(-)}{L}_{\parallel}$ | $\overset{(\pm)}{L}_{\parallel}=\mp \frac{i}{4} \ell^{2} \overset{(\pm)}{\Pi}{}^{\alpha} \wedge \overset{(\pm)}{\Pi}_{\alpha}, \quad \overline{\overset{(+)}{L}}_{\parallel}=\overset{(-)}{L}_{\parallel},$ |
| mielke-geometrodynamics_EQ0222 (4.2.15) | 87 | 0.466 | \widetilde{\widetilde{\varphi}}: A(M) \rightarrow C^{ \infty}(\stackrel{\circ}{V}) | $\widetilde{\widetilde{\varphi}}: A(M) \rightarrow C^{\infty}(\stackrel{\circ}{V})$ | $\widetilde{\widetilde{\varphi}}: A(M) \rightarrow C^{\infty}(\stackrel{\circ}{V})$ |
| mielke-geometrodynamics_EQ0604 (9.2.3) | 199 | 0.474 | \begin{aligned} L_{\text {Euler }}, & ={ }^{*} \left(\gamma_{2}^{g}\right)=\frac{1}{(4 \pi)^{2}} \operatorname{Tr}\left(\Omega^{g} \wedge \Omega^{g(*)} \right) \\ & =\frac{(-1)^{s / 4}}{32 \pi^{2}} R^{\alpha \beta \gamma \delta *} R_{\alpha \beta \gamma \delta}^{*} \sqrt{\|g\\|} d^{4} x . \end{aligned} | $\begin{aligned} L_{\text {Euler }}, & ={}^{*}\left(\gamma_{2}^{g}\right)=\frac{1}{(4 \pi)^{2}} \operatorname{Tr}\left(\Omega^{g} \wedge \Omega^{g(*)}\right) \\ & =\frac{(-1)^{s / 4}}{32 \pi^{2}} R^{\alpha \beta \gamma \delta *} R_{\alpha \beta \gamma \delta}^{*} \sqrt{\|g\|} d^{4} x . \end{aligned}$ | $\begin{aligned} L_{\text {Euler }}, & ={}^{*}\left(\gamma_{2}^{g}\right)=\frac{1}{(4 \pi)^{2}} \operatorname{Tr}\left(\Omega^{g} \wedge \Omega^{g(*)}\right) \\ & =\frac{(-1)^{s / 4}}{32 \pi^{2}} R^{\alpha \beta \gamma \delta *} R_{\alpha \beta \gamma \delta}^{*} \sqrt{\|g\|} d^{4} x . \end{aligned}$ |
| mielke-geometrodynamics_EQ0401 (6.4.20) | 133 | 0.482 | \mathscr{H}_{\\|}=\stackrel{(\pm)}{\underline{D}} \stackrel{*}{-}\mathscr{A}_{\hat{0}}^{( \pm)}=0, | $\mathscr{H}_{\parallel}=\overset{(\pm)}{\underline{D}} \overset{*}{-} \overset{(\pm)}{\mathscr{A}}_{\hat{0}}=0,$ | $\mathscr{H}_{\parallel}=\overset{(\pm)}{\underline{D}} \overset{*}{-} \overset{(\pm)}{\mathscr{A}}_{\hat{0}}=0,$ |
| mielke-geometrodynamics_EQ0750 (11.1.17) | 241 | 0.484 | D_{\left.\right\|_{\overparen{S O}(1,3)} ^{\mathrm{F}}}^{ \mathrm{F}}=\underbrace{D^{\frac{1}{2}} \times \cdots \times D^{\frac{1}{2}}}_{(n-4) / 4} . | $D^{\mathrm{F}}\|_{\widehat{SO}(1,3)}=\underbrace{D^{\frac{1}{2}} \times \cdots \times D^{\frac{1}{2}}}_{(n-4)/4}.$ | $D^{\mathrm{F}}\|_{\widehat{SO}(1,3)}=\underbrace{D^{\frac{1}{2}} \times \cdots \times D^{\frac{1}{2}}}_{(n-4)/4}.$ |
| mielke-geometrodynamics_EQ0686 (10.3.44) | 222 | 0.497 | \left.\left.\left.C_{l}=E_{l}^{\alpha} *\left\{D^{\{ \}}\left[2\left(e^{\beta}\right\lrcorner D^{\{ \}} H_{[ \alpha \beta]}\right)+\frac{1}{2} \vartheta_{\alpha} \wedge\left(e^{\beta}\right\lrcorner e^{\gamma}\right\lrcorner D^{\{ \}} H_{[\beta \gamma]}\right)\right] \right\} | $C_{l}=E_{l}^{\alpha} *\left\{D^{\{\}}\left[2\left(e^{\beta} \rfloor D^{\{\}} H_{[\alpha \beta]}\right)+\frac{1}{2} \vartheta_{\alpha} \wedge\left(e^{\beta} \rfloor e^{\gamma} \rfloor D^{\{\}} H_{[\beta \gamma]}\right)\right]\right\}$ | $C_{l}=E_{l}^{\alpha} *\left\{D^{\{\}}\left[2\left(e^{\beta} \rfloor D^{\{\}} H_{[\alpha \beta]}\right)+\frac{1}{2} \vartheta_{\alpha} \wedge\left(e^{\beta} \rfloor e^{\gamma} \rfloor D^{\{\}} H_{[\beta \gamma]}\right)\right]\right\}$ |
| mielke-geometrodynamics_EQ0515 (7.7.33) | 166 | 0.497 | \left.\left.T:=\frac{1}{4} \operatorname{Tr}(\check{ \gamma}\rfloor \Theta\right)=e_{\alpha}\right\rfloor T^{\alpha}, \quad \mathscr{A}:=\frac{1}{4}{ }^{*} \operatorname{Tr}(\gamma \wedge \Theta)={ }^{*}\left( \vartheta_{\alpha} \wedge T^{\alpha}\right) . | $T:=\frac{1}{4} \operatorname{Tr}\left(\check{\gamma} \rfloor \Theta\right)=e_{\alpha} \rfloor T^{\alpha}, \quad \mathscr{A}:=\frac{1}{4}{}^{*} \operatorname{Tr}(\gamma \wedge \Theta)={}^{*}\left(\vartheta_{\alpha} \wedge T^{\alpha}\right).$ | $T:=\frac{1}{4} \operatorname{Tr}\left(\check{\gamma} \rfloor \Theta\right)=e_{\alpha} \rfloor T^{\alpha}, \quad \mathscr{A}:=\frac{1}{4}{}^{*} \operatorname{Tr}(\gamma \wedge \Theta)={}^{*}\left(\vartheta_{\alpha} \wedge T^{\alpha}\right).$ |

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| mielke-geometrodynamics_EQ0799 (11.4.11) | 254 | 0.505 | d s^{2}=\frac{1}{\lambda^{2}}\left(R_{\circ}^{2} d \lambda^{2}-\mathrm{o}_{i j} d y^{i} \otimes_{s} d y^{j} \right) . | $ds^2 = \frac{1}{\lambda^2}\left(R_\circ^2 d\lambda^2 - \mathrm{o}_{ij} dy^i \otimes_s dy^j\right).$ | $ds^2 = \frac{1}{\lambda^2}\left(R_\circ^2 d\lambda^2 - \mathrm{o}_{ij} dy^i \otimes_s dy^j\right).$ |
| mielke-geometrodynamics_EQ0960 (14.1.42) | 309 | 0.508 | \xi_{\mu \nu} \xi_{\rho \sigma}=-\frac{1}{2} \bar{R}_{\mu \nu \rho \sigma}^{\{ \}}-\frac{1}{2} \frac{\bar{R}_{\mu \nu \gamma \delta}^{\{ \}} \bar{R}_{\rho \sigma}^{\{ \} \gamma \delta}}{R_{\alpha \beta}^{\{ \}} R^{\{j \alpha \beta}} . | $\xi_{\mu\nu}\xi_{\rho\sigma} = -\frac{1}{2}\bar{R}^{\{\}}_{\mu\nu\rho\sigma} - \frac{1}{2}\frac{\bar{R}^{\{\}}_{\mu\nu\gamma\delta}\bar{R}^{\{\}\gamma\delta}_{\rho\sigma}}{R^{\{\}}_{\alpha\beta}R^{\{j\alpha\beta}}.$ | $\xi_{\mu\nu}\xi_{\rho\sigma} = -\frac{1}{2}\overline{R}^{\{\}}_{\mu\nu\rho\sigma} - \frac{1}{2}\frac{\overline{R}^{\{\}}_{\mu\nu\gamma\delta}\overline{R}^{\{\}\gamma\delta}_{\rho\sigma}}{R^{\{\}}_{\alpha\beta}R^{\{j\alpha\beta}}.$ |
| mielke-geometrodynamics_EQ1131 (B.43) | 373 | 0.509 | \langle,\rangle_{M}: \begin{cases}\bigwedge^{p} T^{*}(M) \times & C_{p}(M, \mathbb{R}) \rightarrow \mathbb{R} \\ \left\langle\alpha^{(p)},\right. & \left.c_{p} \right\rangle_{\mathrm{M}} \rightarrow \int_{c_{p}} \alpha^{(p)}\end{cases} | $\langle,\rangle_M : \begin{cases}\bigwedge^p T^*(M)\times & C_p(M,\mathbb{R}) \rightarrow \mathbb{R} \\ \langle\alpha^{(p)}, & c_p\rangle_{\mathrm{M}} \rightarrow \int_{c_p}\alpha^{(p)}\end{cases}$ | $\langle\,,\rangle_M : \begin{cases}\bigwedge^p T^*(M)\times & C_p(M,\mathbb{R}) \rightarrow \mathbb{R} \\ \Psi & \Psi \\ \langle\alpha^{(p)}, & c_p\rangle_{\mathrm{M}} \rightarrow \int_{c_p}\alpha^{(p)}\end{cases}$ |
| mielke-geometrodynamics_EQ0294 (4.5.5) | 101 | 0.510 | \left.\Sigma_{\alpha}=e_{\alpha} \downharpoonleft L-\left(e_{\alpha} \downharpoonleft D \Psi\right) \wedge \frac{\partial L}{\partial D \Psi}-\left(e_{\alpha}\right. \lrcorner \Psi\right) \wedge \frac{\partial L}{\partial \Psi} . | $\Sigma_\alpha = e_\alpha \downharpoonleft L - (e_\alpha \downharpoonleft D\Psi)\wedge\frac{\partial L}{\partial D\Psi} - \left.(e_\alpha \lrcorner \Psi\right)\wedge\frac{\partial L}{\partial\Psi}.$ | $\Sigma_\alpha = e_\alpha\rfloor L - (e_\alpha\rfloor D\Psi)\wedge\frac{\partial L}{\partial D\Psi} - (e_\alpha\rfloor\Psi)\wedge\frac{\partial L}{\partial\Psi}.$ |
| mielke-geometrodynamics_EQ0118 (3.3.19) | 59 | 0.513 | L_{\mathrm{Pontr}}:=-\frac{1}{2} F \wedge F=\mathbf{E} \cdot \mathbf{B} \eta . | $L_{\mathrm{Pontr}} := -\frac{1}{2}F\wedge F = \mathbf{E}\cdot\mathbf{B}\eta.$ | $L_{\mathrm{Pontr}} := -\frac{1}{2}F\wedge F = \mathbf{E}\cdot\mathbf{B}\eta.$ |
| mielke-geometrodynamics_EQ0533 (7.7.53) | 169 | 0.513 | \begin{aligned} G & :=\frac{1}{2} R^{\beta \gamma} \wedge \eta_{\alpha \beta \gamma} \gamma^{\alpha} \\ & \left.\left.=G^{(\beta)}+\frac{(-1)^{\mathrm{sig}}}{12} \left(e_{\alpha}\right\rfloor \mathscr{A} \wedge{ }^{*} \mathscr{A}-\frac{1}{3} \mathscr{A} \wedge e_{\alpha} \right\rfloor^{*} \mathscr{A}\right) \gamma^{\alpha}+ \frac{(-1)^{\mathrm{sig}}}{6} \gamma \wedge d \mathscr{A} \end{aligned} | $\begin{aligned} G &:=\frac{1}{2} R^{\beta \gamma} \wedge \eta_{\alpha \beta \gamma} \gamma^{\alpha} \\ &= G^{(\beta)}+\frac{(-1)^{\mathrm{sig}}}{12} \left(e_{\alpha}\rfloor \mathscr{A} \wedge{ }^{*} \mathscr{A}-\frac{1}{3} \mathscr{A} \wedge e_{\alpha}\rfloor^{*} \mathscr{A}\right) \gamma^{\alpha}+\frac{(-1)^{\mathrm{sig}}}{6} \gamma \wedge d \mathscr{A}\end{aligned}$ | $\begin{aligned} G &:=\frac{1}{2} R^{\beta \gamma} \wedge \eta_{\alpha \beta \gamma} \gamma^{\alpha} \qquad (7.7.5 \\ &= G^{(\beta)}+\frac{(-1)^{\mathrm{sig}}}{12} \left(e_{\alpha}\rfloor \mathscr{A} \wedge{ }^{*} \mathscr{A}-\frac{1}{3} \mathscr{A} \wedge e_{\alpha}\rfloor^{*} \mathscr{A}\right) \gamma^{\alpha}+\frac{(-1)^{\mathrm{sig}}}{6} \gamma \wedge d \mathscr{A}\end{aligned}$ |
| mielke-geometrodynamics_EQ0898 (13.5.3) | 288 | 0.515 | \hat{B}:=B_{A}{ }^{B}{ }^{A}{ }^{A}{ }_{B}=\left(b_{ \alpha} P_{*}^{\alpha}+\hat{b}^{\alpha} P_{\alpha}\right) \ell^{2}+B_{\alpha}{ }^{\beta} L^{\alpha}{ }_{\beta} | $\hat{B} := B_A{}^{BAA}{}_B = \left(b_\alpha P_*^\alpha + \hat{b}^\alpha P_\alpha\right)\ell^2 + B_\alpha{}^\beta L^\alpha{}_\beta$ | $\hat{B} := B_A{}^B \not{L}^A{}_B = (b_\alpha P_*^\alpha + \hat{b}^\alpha P_\alpha)\ell^2 + B_\alpha{}^\beta L^\alpha{}_\beta$ |
| mielke-geometrodynamics_EQ0045 (2.6.8) | 43 | 0.516 | (d b)_{\mathrm{hor}}=D b=\omega \otimes b | $(db)_{\mathrm{hor}} = Db = \omega\otimes b$ | $(db)_{\mathrm{hor}} = Db = \omega\otimes b$ |
| mielke-geometrodynamics_EQ0876 (13.3.5) | 285 | 0.518 | \begin{aligned} {\left[P_{\alpha}, P_{\beta}\right]=0, } & {\left[P_{*}^{\alpha}, P_{*}^{\beta}\right]=0, } \\ {\left[L_{\beta}^{\alpha}, P_{\gamma}\right]=\delta_{ \gamma}^{\alpha} P_{\beta}, } & {\left[L_{\beta}^{ \alpha}, P_{*}^{\gamma}\right]=-\delta_{\beta}^{\gamma} P_{*}^{\alpha} . } \end{aligned} | $\begin{aligned} &[P_\alpha, P_\beta] = 0, \quad [P_*^\alpha, P_*^\beta] = 0, \\ &[L^\alpha{}_\beta, P_\gamma] = \delta^\alpha_\gamma P_\beta, \quad [L^\alpha{}_\beta, P_*^\gamma] = -\delta^\gamma_\beta P_*^\alpha.\end{aligned}$ | $\begin{aligned} &[P_\alpha\,, P_\beta] = 0\,, \quad [P_*^\alpha\,, P_*^\beta] = 0\,, \\ &[L^\alpha{}_\beta\,, P_\gamma] = \delta^\alpha_\gamma P_\beta\,, \quad [L^\alpha{}_\beta\,, P_*^\gamma] = -\delta^\gamma_\beta P_*^\alpha\,.\end{aligned}$ |

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| mielke-geometrodynamics_EQ0990 (14.3.3) | 320 | 0.526 | `\begin{aligned} \hat{L}_{\mathrm{D} .} & =\frac{i}{2} \left(\overline{\hat{\psi}} \hat{\gamma} \wedge^{*} \hat{D}^{g+\circ} \hat{\psi}+\left(\overline{\hat{D}^{g+ \circ} \hat{\psi}}\right) \wedge^{*} \hat{\gamma} \hat{ \psi}\right)-\hat{m} \overline{\hat{\psi}} \hat{\psi} \eta \\ & +\frac{1}{2} \overline{\hat{\psi}}\left[ \hat{\alpha},{ }^{*} \hat{\gamma}\right] \hat{\psi} . \end{aligned}` | $\hat{L}_{\mathrm{D} .}=\frac{i}{2}\left(\overline{\hat{\psi}} \hat{\gamma} \wedge^{*} \hat{D}^{g+\circ} \hat{\psi}+\left(\overline{\hat{D}^{g+\circ} \hat{\psi}}\right) \wedge^{*} \hat{\gamma} \hat{\psi}\right)-\hat{m} \overline{\hat{\psi}} \hat{\psi} \eta \\ +\frac{1}{2} \overline{\hat{\psi}}\left[\hat{\alpha},{ }^{*} \hat{\gamma}\right] \hat{\psi} .$ | $\hat{L}_{\mathrm{D} .}=\frac{i}{2}(\overline{\hat{\psi}} \hat{\gamma} \wedge^{*} \hat{D}^{g+\circ} \hat{\psi}+(\overline{\hat{D}^{g+\circ} \hat{\psi}}) \wedge^{*} \hat{\gamma} \hat{\psi})-\hat{m} \overline{\hat{\psi}} \hat{\psi} \eta \\ +\frac{1}{2} \overline{\hat{\psi}}[\hat{\alpha},{ }^{*} \hat{\gamma}] \hat{\psi} .$ |
| mielke-geometrodynamics_EQ0456 (7.2.8) | 152 | 0.527 | `\bar{R}_{. . c d}^{a b}=2 R_{.[c}^{[a} \delta_{d]}^{b]} ; \quad R_{. b}^{a}:=R_{. b}^{a}-\frac{1}{4} \delta_{b}^{a} R,` | $\bar{R}_{..cd}^{ab}=2 R_{.[c}^{[a} \delta_{d]}^{b]} ; \quad R_{.b}^{a}:=R_{.b}^{a}-\frac{1}{4} \delta_{b}^{a} R,$ | $\bar{R}_{..cd}{}^{ab}=2 \not{R}_{.[c}^{[a} \delta_{d]}^{b]} ; \quad \not{R}_{.b}^{a}:=R_{.b}^{a}-\frac{1}{4} \delta_{b}^{a} R,$ |
| mielke-geometrodynamics_EQ0360 (6.2.11) | 125 | 0.531 | `L_{\\|} \equiv L_{\mathrm{HE}}+\frac{1}{2 \kappa} R_{ \alpha \beta} \wedge^{*}\left(\vartheta^{\alpha} \wedge \vartheta^{\beta}\right)+\frac{2 \ell^{2}}{\kappa} d C_{ \mathrm{TT}^{*}},` | $L_{\\|} \equiv L_{\mathrm{HE}}+\frac{1}{2 \kappa} R_{\alpha \beta} \wedge^{*}\left(\vartheta^{\alpha} \wedge \vartheta^{\beta}\right)+\frac{2 \ell^{2}}{\kappa} d C_{\mathrm{TT}^{*}},$ | $L_{\\|} \equiv L_{\mathrm{HE}}+\frac{1}{2 \kappa} R_{\alpha \beta} \wedge^{*}(\vartheta^{\alpha} \wedge \vartheta^{\beta})+\frac{2 \ell^{2}}{\kappa} d C_{\mathrm{TT}^{*}},$ |
| mielke-geometrodynamics_EQ0437 (6.8.8) | 142 | 0.532 | `E_{\alpha}:=\frac{\partial L_{g}}{\partial \vartheta^{ \alpha}}=e_{\alpha} \downharpoonleft L_{g}+\left(e_{ \alpha} \downharpoonleft T^{\beta}\right) \wedge H_{ \beta}+\left(e_{\alpha} \downharpoonleft R^{\beta \gamma} \right) \wedge H_{\beta \gamma},` | $E_{\alpha}:=\frac{\partial L_{g}}{\partial \vartheta^{\alpha}}=e_{\alpha} \downharpoonleft L_{g}+\left(e_{\alpha} \downharpoonleft T^{\beta}\right) \wedge H_{\beta}+\left(e_{\alpha} \downharpoonleft R^{\beta \gamma}\right) \wedge H_{\beta \gamma},$ | $E_{\alpha}:=\frac{\partial L_{g}}{\partial \vartheta^{\alpha}}=e_{\alpha} \rfloor L_{g}+(e_{\alpha} \rfloor T^{\beta}) \wedge H_{\beta}+(e_{\alpha} \rfloor R^{\beta \gamma}) \wedge H_{\beta \gamma},$ |
| mielke-geometrodynamics_EQ0198 (4.1.11) | 82 | 0.533 | `\begin{aligned} e_{\alpha}(m) \rightarrow & e_{\alpha}{ }^{\prime}(m)=g_{\alpha}{ }^{\beta} e_{\beta}(m), \\ & g= \left[g_{\alpha}{ }^{\beta}\right] \in G L(n, \mathbb{R}) . \end{aligned}` | $e_{\alpha}(m) \rightarrow e_{\alpha}{}^{\prime}(m)=g_{\alpha}{}^{\beta} e_{\beta}(m), \\ g=\left[g_{\alpha}{}^{\beta}\right] \in G L(n, \mathbb{R}) .$ | $e_{\alpha}(m) \rightarrow e_{\alpha}{}^{\prime}(m)=g_{\alpha}{}^{\beta} e_{\beta}(m), \\ g=[g_{\alpha}{}^{\beta}] \in G L(n, \mathbb{R}) .$ |
| mielke-geometrodynamics_EQ0599 (9.1.17) | 196 | 0.534 | `\begin{aligned} & f=-\frac{1}{r}\left(1+\frac{\kappa}{2 \ell^{* 2}} r^{2}\right) e^{-\nu / 2}, g=\frac{1}{r} e^{\nu / 2} \\ & h=-\frac{1}{(+) \ell *} \frac{\sqrt{- \kappa}}{3}, \quad k=+\frac{1}{(-) 2 \ell *} \sqrt{-3 \kappa} \end{aligned}` | $f=-\frac{1}{r}\left(1+\frac{\kappa}{2 \ell^{* 2}} r^{2}\right) e^{-\nu / 2}, g=\frac{1}{r} e^{\nu / 2} \\ h=-\frac{1}{(+) \ell *} \frac{\sqrt{-\kappa}}{3}, \quad k=+\frac{1}{(-) 2 \ell *} \sqrt{-3 \kappa} \end{aligned}$ | $f=-\frac{1}{r}\left(1+\frac{\kappa}{2 \ell^{* 2}} r^{2}\right) e^{-\nu / 2}, g=\frac{1}{r} e^{\nu / 2} \\ h=-\frac{1}{(+) \ell *} \frac{\sqrt{-\kappa}}{3}, \quad k=+\frac{1}{(-) 2 \ell *} \sqrt{-3 \kappa} .$ |
| mielke-geometrodynamics_EQ0752 (11.1.19) | 241 | 0.535 | `\Psi=\Psi \otimes \tilde{b} \in C^{\infty}\left(V^{ \frac{1}{2}}\right) .` | $\Psi=\Psi \otimes \tilde{b} \in C^{\infty}\left(V^{\frac{1}{2}}\right) .$ | $\Psi=\psi \otimes \tilde{b} \in C^{\infty}(V^{\frac{1}{2}}) .$ |
| mielke-geometrodynamics_EQ1047 (15.2.4) | 344 | 0.536 | `\begin{aligned} \bar{E}_{i}= & \frac{1}{2}\left \{E_{i \alpha}^{(f) j} \gamma^{\alpha}+i{ }^{*} E_{i \alpha}^{(f) j} \gamma^{\alpha} \gamma^{5}\right \} \lambda_{j}^{(f)} \\ & \oplus \frac{1}{2}\left \{E_{i \alpha}^{(c) j} \gamma^{\alpha}+i{ }^{*} E_{i \alpha}^{(c) j} \gamma^{\alpha} \gamma^{5}\right\} \lambda_{j}^{(c)} \end{aligned}` | $\bar{E}_{i}=\frac{1}{2}\left \{E_{i \alpha}^{(f) j} \gamma^{\alpha}+i{ }^{*} E_{i \alpha}^{(f) j} \gamma^{\alpha} \gamma^{5}\right \} \lambda_{j}^{(f)} \\ \oplus \frac{1}{2}\left \{E_{i \alpha}^{(c) j} \gamma^{\alpha}+i{ }^{*} E_{i \alpha}^{(c) j} \gamma^{\alpha} \gamma^{5}\right\} \lambda_{j}^{(c)}$ | $\overline{E}_{i}=\frac{1}{2}\left \{E_{i \alpha}^{(f) j} \gamma^{\alpha}+i{ }^{*} E_{i \alpha}^{(f) j} \gamma^{\alpha} \gamma^{5}\right \} \lambda_{j}^{(f)} \\ \oplus \frac{1}{2}\left \{E_{i \alpha}^{(c) j} \gamma^{\alpha}+i{ }^{*} E_{i \alpha}^{(c) j} \gamma^{\alpha} \gamma^{5}\right\} \lambda_{j}^{(c)}$ |

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| mielke-geometrodynamics_EQ0982 (14.2.23) | 317 | 0.537 | `\int_{G} \pi \hat{L}_{\mathrm{E} .}=\frac{1}{\ell^{* 2}} L_{\mathrm{W} .}+L_{\mathrm{YM}}^{\prime}+\frac{1}{2 \ell^{* 2}} \vartheta \wedge \vartheta \wedge \vartheta \wedge \vartheta \int_{G}^{\circ} \stackrel{\circ}{R} d \mu(G) .` | $\int_G \pi \hat{L}_{\mathrm{E.}} = \frac{1}{\ell^{*2}} L_{\mathrm{W.}} + L'_{\mathrm{YM}} + \frac{1}{2\ell^{*2}} \vartheta \wedge \vartheta \wedge \vartheta \wedge \vartheta \int_G^{\circ} \overset{\circ}{R}\, d\mu(G).$ | $\int_G \pi \hat{L}_{\mathrm{E.}} = \frac{1}{\ell^{*2}} L_{\mathrm{W.}} + L'_{\mathrm{YM}} + \frac{1}{2\ell^{*2}} \vartheta \wedge \vartheta \wedge \vartheta \wedge \vartheta \int_G \overset{\circ}{R} d\mu(G).$ |
| mielke-geometrodynamics_EQ1134 (C.2) | 375 | 0.539 | `\exp : \mathfrak{g} \rightarrow G \ni g=\exp \left(\iota \xi^{j} I_{j}\right)` | $\exp : \mathfrak{g} \rightarrow G \ni g = \exp\left(\iota \xi^j I_j\right)$ | $\exp : \mathfrak{g} \rightarrow G \ni g = \exp(\iota \xi^j I_j)$ |
| mielke-geometrodynamics_EQ1002 (14.3.15) | 323 | 0.541 | `(i \not D)^{2}=(-1)^{3 n-1+s} \operatorname{Tr}\left\{ \gamma \wedge \gamma \wedge^{*}(D D)-\gamma \wedge(D \gamma) \wedge^{*} D\right\}` | $(i \not{D})^2 = (-1)^{3n-1+s} \operatorname{Tr}\left\{\gamma \wedge \gamma \wedge^* (DD) - \gamma \wedge (D\gamma) \wedge^* D\right\}$ | $(i \not{D})^2 = (-1)^{3n-1+s} \operatorname{Tr}\{\gamma \wedge \gamma \wedge {}^*(D\, D) - \gamma \wedge (D\gamma) \wedge {}^*D\}$ |
| mielke-geometrodynamics_EQ1085 (A.11) | 365 | 0.541 | `\begin{aligned} & \mathrm{C}(0,1)=\mathbb{C} \quad(\text { field of complex numbers }), \\ & \mathrm{C}(1,0)= \mathbb{R} \oplus \mathbb{R}, \end{aligned}` | $\begin{aligned} & \mathrm{C}(0,1)=\mathbb{C} \quad(\text { field of complex numbers }), \\ & \mathrm{C}(1,0)=\mathbb{R} \oplus \mathbb{R}, \end{aligned}$ | $\begin{aligned} & \mathrm{C}(0,1)=\mathbb{C} \qquad\qquad (\text{field of complex numbers}), \\ & \mathrm{C}(1,0)=\mathbb{R} \oplus \mathbb{R}, \end{aligned}$ |
| mielke-geometrodynamics_EQ0004 (2.1.3) | 33 | 0.543 | `e_{\alpha}(m)=e_{, \alpha}^{i}(m) \partial_{i} .` | $e_\alpha(m) = e^i_{,\alpha}(m)\partial_i.$ | $e_\alpha(m) = e^i_{,\alpha}(m)\, \partial_i.$ |
| mielke-geometrodynamics_EQ0558 (8.5.1) | 181 | 0.544 | `\Delta L_{\mathrm{FP}}=s \operatorname{Tr}\left\{\frac{ \theta_{\mathrm{T}}^{*} i}{4 \ell^{2}} \bar{\chi} \wedge^{*} \sigma-\bar{c} d^{*} \gamma\right\}` | $\Delta L_{\mathrm{FP}} = s \operatorname{Tr}\left\{\frac{\theta_{\mathrm{T}}^* i}{4\ell^2} \bar{\chi} \wedge^* \sigma - \bar{c} d^* \gamma\right\}$ | $\Delta L_{\mathrm{FP}} = s \operatorname{Tr}\left\{\frac{\theta_{\mathrm{T}}^* i}{4\ell^2} \bar{\chi} \wedge {}^*\sigma - \bar{c} d\, {}^*\gamma\right\}$ |
| mielke-geometrodynamics_EQ0304 (4.5.14) | 102 | 0.545 | `\begin{gathered} D \Sigma_{\alpha} \simeq 0 \\ D\left( \tau_{\alpha \beta}+x_{[\alpha} \wedge \Sigma_{\beta]} \right) \simeq 0 . \end{gathered}` | $\begin{gathered} D \Sigma_\alpha \simeq 0 \\ D\left(\tau_{\alpha\beta} + x_{[\alpha} \wedge \Sigma_{\beta]}\right) \simeq 0. \end{gathered}$ | $\begin{gathered} D \Sigma_\alpha \simeq 0\,, \\ D(\tau_{\alpha\beta} + x_{[\alpha} \wedge \Sigma_{\beta]}) \simeq 0\,. \end{gathered}$ |
| mielke-geometrodynamics_EQ0270 (4.3.35) | 95 | 0.546 | `R:=R_{\mu}^{\cdot \mu}=R_{\alpha \mu}^{\cdot \cdot \mu \alpha}={ }^{*}\left(\Omega^{g} \wedge \vartheta \wedge \vartheta\right) .` | $R := R_\mu^{\cdot\mu} = R_{\alpha\mu}^{\cdot\cdot\mu\alpha} = {}^*\left(\Omega^g \wedge \vartheta \wedge \vartheta\right).$ | $R := R_\mu^{\cdot\mu} = R_{\alpha\mu}^{\cdot\cdot\mu\alpha} = {}^*(\Omega^g \wedge \vartheta \wedge \vartheta).$ |
| mielke-geometrodynamics_EQ0174 (3.7.2) | 71 | 0.550 | `\begin{aligned} D^{*} \Theta^{(1)} & =\frac{\lambda}{2} \left(\frac{\mu^{2}}{\lambda}-\bar{\varphi} \cdot \varphi \right) \varphi \eta \\ \Theta^{(1)} & =D \phi^{(0)} \end{aligned}` | $\begin{aligned} D^* \Theta^{(1)} &= \frac{\lambda}{2}\left(\frac{\mu^2}{\lambda} - \bar{\varphi}\cdot\varphi\right)\varphi\eta \\ \Theta^{(1)} &= D\phi^{(0)} \end{aligned}$ | $\begin{aligned} D^* \Theta^{(1)} &= \frac{\lambda}{2}\left(\frac{\mu^2}{\lambda} - \bar{\varphi}\cdot\varphi\right)\varphi\eta, \\ \Theta^{(1)} &= D\phi^{(0)}. \end{aligned}$ |
| mielke-geometrodynamics_EQ0404 (6.4.24) | 134 | 0.551 | `-\ell^{2} \frac{\delta}{\delta \underline{*}_{ \underline{0}}} \Psi_{\|}(\vartheta)=\stackrel{*}{ \underline{T}}^{( \pm)}{ }^{B} \Psi_{\|}(\vartheta) .` | $-\ell^2 \frac{\delta}{\delta \underline{*}_{\underline{0}}} \Psi_{\|}(\vartheta) = \overset{*}{\underline{T}}{}^{(\pm)}{}^B \Psi_{\|}(\vartheta).$ | $-\ell^2 \frac{\delta}{\delta \underline{*}_{\underline{B}}} \Psi_{\|}(\vartheta) = \underline{*}\, \overset{(\pm)}{\underline{T}}{}^B\, \Psi_{\|}(\vartheta).$ |
| mielke-geometrodynamics_EQ0392 (6.4.7) | 132 | 0.552 | `\left.\left.n^{\alpha} \Sigma_{\alpha}=n \downharpoonleft L-(n\rfloor D \Psi\right) \wedge \frac{\partial L}{ \partial D \Psi}-(n\rfloor \Psi\right) \wedge \frac{ \partial L}{\partial \Psi} .` | $n^\alpha \Sigma_\alpha = n \lrcorner L - (n\rfloor D\Psi) \wedge \frac{\partial L}{\partial D\Psi} - (n\rfloor \Psi)\Big) \wedge \frac{\partial L}{\partial \Psi}.$ | $n^\alpha \Sigma_\alpha = n\rfloor L - (n\rfloor D\Psi) \wedge \frac{\partial L}{\partial D\Psi} - (n\rfloor \Psi) \wedge \frac{\partial L}{\partial \Psi}.$ |
| mielke-geometrodynamics_EQ0879 (13.3.4) | 285 | 0.553 | `\stackrel{\circ}{L}_{A B}:=\hat{g}_{[A \mid C} C^{C}{ }_{ \mid B]}=-\stackrel{\circ}{L}_{B A}` | $\overset{\circ}{L}_{AB} := \hat{g}_{[A\|C} C^C{}_{\|B]} = -\overset{\circ}{L}_{BA}$ | $\overset{\circ}{L}_{AB} := \hat{g}_{[A\|C} C^C{}_{\|B]} = -\overset{\circ}{L}_{BA}$ |
| mielke-geometrodynamics_EQ0013 (2.2.8) | 34 | 0.554 | `d s^{2}=g_{i j} d x^{i} \otimes_{s} d x^{j} \stackrel{(*)}{=}-\sum_{i=1}^{s}\left(\stackrel{ \circ}{\vartheta}^{i}\right)^{2}+\sum_{j=s+1}^{n}\left( \stackrel{\circ}{\vartheta}^{j}\right)^{2} .` | $ds^2 = g_{ij}\, dx^i \otimes_s dx^j \overset{(*)}{=} -\sum_{i=1}^{s}\left(\overset{\circ}{\vartheta}{}^i\right)^2 + \sum_{j=s+1}^{n}\left(\overset{\circ}{\vartheta}{}^j\right)^2.$ | $ds^2 = g_{ij}\, dx^i \otimes_s dx^j \overset{(*)}{=} -\sum_{i=1}^{s}(\overset{\circ}{\vartheta}{}^i)^2 + \sum_{j=s+1}^{n}(\overset{\circ}{\vartheta}{}^j)^2.$ |

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| mielke-geometrodynamics_EQ1011 (14.4.6) | 325 | 0.554 | `r_{(-)}^{+}=\frac{\hbar}{M^{* 2} c}\left(M \underset{(-)}{+} \sqrt{M^{2}-J(J+1) \frac{M^{* 4}}{M^{2}}-\alpha_{e} M^{* 2} \operatorname{Tr}} \bar{Q}^{2}\right)` | $r_{(-)}^{+}=\frac{\hbar}{M^{*2} c}\left(M \underset{(-)}{+} \sqrt{M^{2}-J(J+1) \frac{M^{* 4}}{M^{2}}-\alpha_{e} M^{* 2} \operatorname{Tr}} \bar{Q}^{2}\right)$ | $r_{(-)}^{+}=\frac{\hbar}{M^{*2} c}\left(M \underset{(-)}{+} \sqrt{M^{2}-J(J+1) \frac{M^{* 4}}{M^{2}}-\alpha_{e} M^{* 2} \operatorname{Tr}} \bar{Q}^{2}\right)$ |
| mielke-geometrodynamics_EQ0385 (6.3.3) | 130 | 0.561 | `\stackrel{( \pm)}{S}_{\alpha}:=\stackrel{( \pm)}{ \Gamma}_{\alpha} \beta \wedge \stackrel{( \pm)}{\Pi}_{ \beta}+\Sigma_{\alpha} \cong d \stackrel{( \pm)}{\Pi}_{ \alpha}, \quad \stackrel{(\mathrm{A}}{S}_{\alpha}= \stackrel{(\mp)}{S}_{\alpha}` | $\overset{(\pm)}{S}_{\alpha}:=\overset{(\pm)}{\Gamma}_{\alpha} \beta \wedge \overset{(\pm)}{\Pi}_{\beta}+\Sigma_{\alpha} \cong d \overset{(\pm)}{\Pi}_{\alpha}, \quad \overset{(\mathrm{A}}{S}_{\alpha}=\overset{(\mp)}{S}_{\alpha}$ | $\overset{(\pm)}{S}_{\alpha}:=\overset{(\pm)}{\Gamma}_{\alpha} \beta \wedge \overset{(\pm)}{\Pi}_{\beta}+\Sigma_{\alpha} \cong d \overset{(\pm)}{\Pi}_{\alpha}, \quad \overline{\overset{(\pm)}{S}}_{\alpha}=\overset{(\mp)}{S}_{\alpha}$ |
| mielke-geometrodynamics_EQ0596 (9.1.14) | 195 | 0.564 | `(\stackrel{+}{D} K)-K \wedge K=\stackrel{+}{\Omega}_{ \mathrm{C}}\{ \} .` | $(\overset{+}{D} K)-K \wedge K=\overset{+}{\Omega}_{\mathrm{C}}\{\}.$ | $(\overset{+}{D} K)-K \wedge K=\overset{+}{\Omega}_{\mathrm{C}}\{\}.$ |
| mielke-geometrodynamics_EQ0169 (3.6.4) | 70 | 0.570 | `D_{ \pm}\left(F^{ \pm}-\frac{1}{2} \bar{\psi} \sigma_{ \pm} \psi\right)=\mp \frac{i}{2} \bar{\psi}^{*} D_{ \pm} \psi=\mp \frac{1}{2} \bar{\psi}^{*} \gamma \wedge{ }^{*} \left(i^{*} \gamma \wedge D_{ \pm} \psi\right) .` | $D_{\pm}\left(F^{\pm}-\frac{1}{2} \bar{\psi} \sigma_{\pm} \psi\right)=\mp \frac{i}{2} \bar{\psi}^{*} D_{\pm} \psi=\mp \frac{1}{2} \bar{\psi}^{*} \gamma \wedge{ }^{*}\left(i^{*} \gamma \wedge D_{\pm} \psi\right) .$ | $D_{\pm}\left(F^{\pm}-\frac{1}{2} \bar{\psi} \sigma_{\pm} \psi\right)=\mp \frac{i}{2} \bar{\psi}^{*} D_{\pm} \psi=\mp \frac{1}{2} \bar{\psi}^{*} \gamma \wedge{ }^{*}\left(i^{*} \gamma \wedge D_{\pm} \psi\right) .$ |
| mielke-geometrodynamics_EQ0889 (13.4.8) | 286 | 0.576 | `\begin{aligned} & \Gamma^{(T) \xrightarrow{A^{-1}(x)}} \Gamma^{(T)^{\prime}}=\Lambda^{-1}(x)\left[ \Gamma^{(T)}+D \tau(x)\right], \\ & \Gamma_{*}^{(T)} \xrightarrow{A^{-1}(x)} \Gamma_{*}^{(T) \prime}=\left[ \Gamma_{*}^{(T)}+D \tau_{*}(x)\right] \Lambda(x) ; \end{aligned}` | $\begin{aligned} & \Gamma^{(T)} \xrightarrow{A^{-1}(x)} \Gamma^{(T)\prime}=\Lambda^{-1}(x)\left[\Gamma^{(T)}+D \tau(x)\right], \\ & \Gamma_{*}^{(T)} \xrightarrow{A^{-1}(x)} \Gamma_{*}^{(T)\prime}=\left[\Gamma_{*}^{(T)}+D \tau_{*}(x)\right] \Lambda(x); \end{aligned}$ | $\begin{aligned} & \Gamma^{(T)} \xrightarrow{A^{-1}(x)} \Gamma^{(T)\prime}=\Lambda^{-1}(x)\left[\Gamma^{(T)}+D \tau(x)\right], \\ & \Gamma_{*}^{(T)} \xrightarrow{A^{-1}(x)} \Gamma_{*}^{(T)\prime}=\left[\Gamma_{*}^{(T)}+D \tau_{*}(x)\right] \Lambda(x); \end{aligned}$ |
| mielke-geometrodynamics_EQ0116 (3.3.17) | 59 | 0.585 | `d H=j\left\{\begin{array}{l} \boldsymbol{\nabla} \times \mathbf{B}-\frac{\partial \mathbf{E}}{c^{2} \partial t}= \mu \mathbf{J} \\ \boldsymbol{\nabla} \cdot \mathbf{E}= \rho / \varepsilon . \end{array}\right.` | $dH=j\left\{\begin{array}{l} \boldsymbol{\nabla} \times \mathbf{B}-\frac{\partial \mathbf{E}}{c^{2} \partial t}=\mu \mathbf{J} \\ \boldsymbol{\nabla} \cdot \mathbf{E}=\rho / \varepsilon . \end{array}\right.$ | $dH=j\left\{\begin{array}{l} \boldsymbol{\nabla} \times \mathbf{B}-\frac{\partial \mathbf{E}}{c^{2} \partial t}=\mu \mathbf{J} \\ \boldsymbol{\nabla} \cdot \mathbf{E}=\rho / \varepsilon . \end{array}\right.$ |
| mielke-geometrodynamics_EQ0381 (6.2.32) | 129 | 0.588 | `\stackrel{( \pm)( \pm)}{D} \Pi_{\alpha}:=D \stackrel{( \pm)}{\Pi}_{\alpha} \pm \frac{i}{2} \ell^{2}\left(e_{ \alpha} \downharpoonleft \stackrel{(\mp)}{\Pi}\right) \wedge \stackrel{( \pm)}{\Pi}_{\beta},` | $\overset{(\pm)(\pm)}{D} \Pi_{\alpha}:=D \overset{(\pm)}{\Pi}_{\alpha} \pm \frac{i}{2} \ell^{2}\left(e_{\alpha} \downharpoonleft \overset{(\mp)}{\Pi}\right) \wedge \overset{(\pm)}{\Pi}_{\beta},$ | $\overset{(\pm)(\pm)}{D} \Pi_{\alpha}:=D \overset{(\pm)}{\Pi}_{\alpha} \pm \frac{i}{2} \ell^{2}\left(e_{\alpha} \downharpoonleft \overset{(\mp)}{\Pi}^{\beta}\right) \wedge \overset{(\pm)}{\Pi}_{\beta},$ |
| mielke-geometrodynamics_EQ0056 (2.7.6) | 45 | 0.592 | `\phi=\varphi \otimes b={G^{-1}} \varphi \otimes^{G} b \quad \in C^{\infty}\left(V^{\rho}\right) .` | $\phi=\varphi \otimes b={ }^{G^{-1}} \varphi \otimes^{G} b \quad \in C^{\infty}\left(V^{\rho}\right) .$ | $\phi=\varphi \otimes b={ }^{G^{-1}} \varphi \otimes^{G} b \quad \in C^{\infty}\left(V^{\rho}\right) .$ |
| mielke-geometrodynamics_EQ0187 (3.7.17) | 74 | 0.593 | `\begin{aligned} \left(D^{*} \Omega\right) & =\vec{D}^{*} \vec{\Omega}+\left[\omega_{0}, \Omega_{0}\right] \\ & = \vec{D}^{*} \vec{\Omega}+\left[\omega_{0}, \Theta^{\perp} \right]=0 . \end{aligned}` | $\begin{aligned} \left(D^{*} \Omega\right) & =\vec{D}^{*} \vec{\Omega}+\left[\omega_{0}, \Omega_{0}\right] \\ & =\vec{D}^{*} \vec{\Omega}+\left[\omega_{0}, \Theta^{\perp}\right]=0 . \end{aligned}$ | $\begin{aligned} \left(D^{*} \Omega\right) & =\vec{D}^{*} \vec{\Omega}+\left[\omega_{0}, \Omega_{0}\right] \\ & =\vec{D}^{*} \vec{\Omega}+\left[\omega_{0}, \Theta^{\perp}\right]=0 . \end{aligned}$ |
| mielke-geometrodynamics_EQ0581 (8.6.19) | 186 | 0.593 | `\widehat{\Sigma}_{\alpha}:=\Sigma_{\alpha}-D^{\{ \}} \mu_{\alpha},` | $\widehat{\Sigma}_{\alpha}:=\Sigma_{\alpha}-D^{\{\}} \mu_{\alpha},$ | $\widehat{\Sigma}_{\alpha}:=\Sigma_{\alpha}-D^{\{\}} \mu_{\alpha},$ |
| mielke-geometrodynamics_EQ0948 (14.1.29) | 307 | 0.593 | `\begin{aligned} D^{*} \Omega & =\left(D^{*} \xi-(-1)^{z} \xi \wedge D \delta\right) \cos \delta \\ & -(-1)^{z}\left(D \xi+(-1)^{z *} \xi \wedge D \delta\right) \sin \delta=\tau_{e} \end{aligned}` | $\begin{aligned} D^{*} \Omega & =\left(D^{*} \xi-(-1)^{z} \xi \wedge D \delta\right) \cos \delta \\ & -(-1)^{z}\left(D \xi+(-1)^{z *} \xi \wedge D \delta\right) \sin \delta=\tau_{e} \end{aligned}$ | $\begin{aligned} D^{*} \Omega & =\left(D^{*} \xi-(-1)^{z} \xi \wedge D \delta\right) \cos \delta \\ & -(-1)^{z}\left(D \xi+(-1)^{z *} \xi \wedge D \delta\right) \sin \delta=\tau_{e} \end{aligned}$ |

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| mielke-geometrodynamics_EQ0357 (6.2.8) | 125 | 0.600 | `L_{\mathrm{HE}}=-\frac{1}{2 \kappa} R_{\alpha \beta}^{\{ \}} \wedge^{*}\left(\vartheta^{\alpha} \wedge \vartheta^{ \beta}\right)` | $L_{\mathrm{HE}}=-\frac{1}{2 \kappa} R_{\alpha \beta}^{\{\}} \wedge^{*}\left(\vartheta^{\alpha} \wedge \vartheta^{\beta}\right)$ | $L_{\mathrm{HE}}=-\frac{1}{2 \kappa} R_{\alpha \beta}^{\{\}} \wedge^{*}\left(\vartheta^{\alpha} \wedge \vartheta^{\beta}\right)$ |
| mielke-geometrodynamics_EQ0704 (10.6.3) | 225 | 0.601 | `\square F-m_{\text {photon }}^{2} F=0,` | $\square F-m_{\text {photon }}^{2} F=0,$ | $\square F-m_{\text {photon }}^{2} F=0,$ |
| mielke-geometrodynamics_EQ0927 (14.1.8) | 303 | 0.604 | `\begin{aligned} \Sigma_{\mathrm{YM}} & =\frac{(-1)^{s}}{2 \alpha_{g}} \operatorname{Tr}\left\{\Omega \wedge^{*} \left(\vartheta \wedge{ }^{*} \Omega\right)+{ }^{*} \vartheta \wedge^{*}\left(\Omega \wedge^{*} \Omega \right)\right\} \\ & =\frac{(-1)^{s}}{4 \alpha_{g}} \operatorname{Tr}\left\{\Omega \wedge^{*}\left(\vartheta \wedge{ }^{*} \Omega\right)-{ }^{*} \Omega \wedge^{*}( \vartheta \wedge \Omega)\right\} . \end{aligned}` | $\begin{aligned} \Sigma_{\mathrm{YM}} & =\frac{(-1)^{s}}{2 \alpha_{g}} \operatorname{Tr}\left\{\Omega \wedge^{*} \left(\vartheta \wedge{ }^{*} \Omega\right)+{ }^{*} \vartheta \wedge^{*}\left(\Omega \wedge^{*} \Omega \right)\right\} \\ & =\frac{(-1)^{s}}{4 \alpha_{g}} \operatorname{Tr}\left\{\Omega \wedge^{*}\left(\vartheta \wedge{ }^{*} \Omega\right)-{ }^{*} \Omega \wedge^{*}( \vartheta \wedge \Omega)\right\} . \end{aligned}$ | $\begin{aligned} \Sigma_{\mathrm{YM}} & =\frac{(-1)^{s}}{2 \alpha_{g}} \operatorname{Tr}\left\{\Omega \wedge^{*} \left(\vartheta \wedge{ }^{*} \Omega\right)+{ }^{*} \vartheta \wedge^{*}\left(\Omega \wedge^{*} \Omega \right)\right\} \\ & =\frac{(-1)^{s}}{4 \alpha_{g}} \operatorname{Tr}\left\{\Omega \wedge^{*}\left(\vartheta \wedge{ }^{*} \Omega\right)-{ }^{*} \Omega \wedge^{*}( \vartheta \wedge \Omega)\right\} . \end{aligned}$ |
| mielke-geometrodynamics_EQ0326 (5.3.3) | 112 | 0.613 | `\left.\widehat{D} G_{\alpha} \equiv \frac{1}{2}\left(e_{ \alpha}\right\rfloor R^{\beta \gamma}\right) \wedge \eta_{\beta \gamma \mu} \wedge T^{\mu}` | $\left.\widehat{D} G_{\alpha} \equiv \frac{1}{2}\left(e_{\alpha}\right\rfloor R^{\beta \gamma}\right) \wedge \eta_{\beta \gamma \mu} \wedge T^{\mu}$ | $\widehat{D} G_{\alpha} \equiv \frac{1}{2}\left(e_{\alpha}\right\rfloor R^{\beta \gamma}\right) \wedge \eta_{\beta \gamma \mu} \wedge T^{\mu}$ |
| mielke-geometrodynamics_EQ0758 (11.1.25) | 242 | 0.615 | `\gamma=E_{\cdot j}^{\alpha}(m) \gamma_{\alpha} \otimes d x^{j}=\gamma_{j} d x^{j} \in C^{\infty}\left(T_{ \mathbb{C}}^{*}(M) \times C V\right)` | $\gamma=E_{\cdot j}^{\alpha}(m) \gamma_{\alpha} \otimes d x^{j}=\gamma_{j} d x^{j} \in C^{\infty}\left(T_{ \mathbb{C}}^{*}(M) \times C V\right)$ | $\gamma=E_{\cdot j}^{\alpha}(m) \gamma_{\alpha} \otimes d x^{j}=\gamma_{j} d x^{j} \in C^{\infty}\left(T_{ \mathbb{C}}^{*}(M) \times C V\right)$ |
| mielke-geometrodynamics_EQ0953 (14.1.35) | 308 | 0.616 | `\begin{aligned} & (-1)^{z} \operatorname{Tr}\left \{\vartheta \wedge{ }^{*} \xi \wedge{ }^{*} \xi- \vartheta \wedge \xi \wedge \xi\right\} \wedge d \delta= \operatorname{Tr}\left\{\xi \wedge \vartheta \wedge D^{*} \xi+{ }^{*} \xi \wedge \vartheta \wedge D \xi\right\} \ \ & =\frac{1}{2} D \operatorname{Tr}\left\{{ }^{*}\left( \xi \wedge^{*}\left(\vartheta \wedge{ }^{*} \xi\right)-{ }^{*} \xi \wedge^{*}(\vartheta \wedge \xi)\right)\right \} \\ & =(-1)^{s} 2 \alpha_{g} D \Sigma_{\mathrm{YM}}= \frac{\alpha_{g}}{\ell^{* 2}} D\left(\vartheta \wedge^{*} \Omega^{g}\right) \equiv 2 \frac{\alpha_{g}}{\ell^{* 2}} \Theta \wedge^{*} \Omega^{g} . \end{aligned}` | $\begin{aligned} & (-1)^{z} \operatorname{Tr}\left \{\vartheta \wedge{ }^{*} \xi \wedge{ }^{*} \xi- \vartheta \wedge \xi \wedge \xi\right\} \wedge d \delta= \operatorname{Tr}\left\{\xi \wedge \vartheta \wedge D^{*} \xi+{ }^{*} \xi \wedge \vartheta \wedge D \xi\right\} \ \ & =\frac{1}{2} D \operatorname{Tr}\left\{{ }^{*}\left( \xi \wedge^{*}\left(\vartheta \wedge{ }^{*} \xi\right)-{ }^{*} \xi \wedge^{*}(\vartheta \wedge \xi)\right)\right \} \\ & =(-1)^{s} 2 \alpha_{g} D \Sigma_{\mathrm{YM}}= \frac{\alpha_{g}}{\ell^{* 2}} D\left(\vartheta \wedge^{*} \Omega^{g}\right) \equiv 2 \frac{\alpha_{g}}{\ell^{* 2}} \Theta \wedge^{*} \Omega^{g} . \end{aligned}$ | $\begin{aligned} & (-1)^{z} \operatorname{Tr}\left \{\vartheta \wedge{ }^{*} \xi \wedge{ }^{*} \xi- \vartheta \wedge \xi \wedge \xi\right\} \wedge d \delta= \operatorname{Tr}\left\{\xi \wedge \vartheta \wedge D^{*} \xi+{ }^{*} \xi \wedge \vartheta \wedge D \xi\right\} \ \ & =\frac{1}{2} D \operatorname{Tr}\left\{{ }^{*}\left( \xi \wedge^{*}\left(\vartheta \wedge{ }^{*} \xi\right)-{ }^{*} \xi \wedge^{*}(\vartheta \wedge \xi)\right)\right \} \\ & =(-1)^{s} 2 \alpha_{g} D \Sigma_{\mathrm{YM}}= \frac{\alpha_{g}}{\ell^{* 2}} D\left(\vartheta \wedge^{*} \Omega^{g}\right) \equiv 2 \frac{\alpha_{g}}{\ell^{* 2}} \Theta \wedge^{*} \Omega^{g} . \end{aligned}$ |
| mielke-geometrodynamics_EQ0998 (14.3.11) | 322 | 0.619 | `\begin{array}{lll} \psi_{\mathrm{L}}: & \gamma^{5}=+1, & \stackrel{\circ}{\gamma}{ }^{K+1}=+\widehat{\gamma}^{n+1} \\ \psi_{\mathrm{R}}: & \gamma^{5}=-1, & \stackrel{ \circ}{\gamma}^{K+1}=-\widehat{\gamma}^{n+1} \end{array}` | $\begin{array}{lll} \psi_{\mathrm{L}}: & \gamma^{5}=+1, & \stackrel{\circ}{\gamma}{ }^{K+1}=+\widehat{\gamma}^{n+1} \\ \psi_{\mathrm{R}}: & \gamma^{5}=-1, & \stackrel{\circ}{\gamma}^{K+1}=-\widehat{\gamma}^{n+1} \end{array}$ | $\begin{array}{lll} \psi_{\mathrm{L}}: & \gamma^{5}=+1, & \stackrel{\circ}{\gamma}{ }^{K+1}=+\widehat{\gamma}^{n+1} \\ \psi_{\mathrm{R}}: & \gamma^{5}=-1, & \stackrel{\circ}{\gamma}^{K+1}=-\widehat{\gamma}^{n+1} \end{array}$ |
| mielke-geometrodynamics_EQ0525 (7.7.44) | 167 | 0.623 | `\begin{aligned} C_{\mathrm{TT}} & :=\frac{1}{8 \ell^{2}} \operatorname{Tr}(\gamma \wedge \Theta)=\frac{1}{2 \ell^{2}} \vartheta^{\alpha} \wedge T_{\alpha}=- \frac{(-1)^{\mathrm{sig}}}{2 \ell^{2}} * \mathscr{A}, \\ C_{\mathrm{RR}} & :=\operatorname{Tr}\left(\Gamma \wedge \Omega^{g}-\frac{1}{3} \Gamma \wedge \Gamma \wedge \Gamma\right), \end{aligned}` | $\begin{aligned} C_{\mathrm{TT}} & :=\frac{1}{8 \ell^{2}} \operatorname{Tr}(\gamma \wedge \Theta)=\frac{1}{2 \ell^{2}} \vartheta^{\alpha} \wedge T_{\alpha}=-\frac{(-1)^{\mathrm{sig}}}{2 \ell^{2}} * \mathscr{A}, \\ C_{\mathrm{RR}} & :=\operatorname{Tr}\left(\Gamma \wedge \Omega^{g}-\frac{1}{3} \Gamma \wedge \Gamma \wedge \Gamma\right), \end{aligned}$ | $\begin{aligned} C_{\mathrm{TT}} & :=\frac{1}{8 \ell^{2}} \operatorname{Tr}(\gamma \wedge \Theta)=\frac{1}{2 \ell^{2}} \vartheta^{\alpha} \wedge T_{\alpha}=-\frac{(-1)^{\mathrm{sig}}}{2 \ell^{2}} * \mathscr{A}, \\ C_{\mathrm{RR}} & :=\operatorname{Tr}\left(\Gamma \wedge \Omega^{g}-\frac{1}{3} \Gamma \wedge \Gamma \wedge \Gamma\right), \end{aligned}$ |

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| mielke-geometrodynamics_EQ0050 (2.6.13) | 44 | 0.626 | `\begin{aligned} D D D b= & D(\Omega \otimes b)=(d \Omega+[\Omega, \omega]) \otimes b \\ = & (d \Omega+ \Omega \wedge \omega-\omega \wedge \Omega) \otimes b \\ = & (d d \omega-d \omega \wedge \omega+\omega \wedge d \omega \\ & \quad+d \omega \wedge \omega-\omega \wedge \omega \wedge \omega \\ & \quad+\omega \wedge \omega \wedge \omega-\omega \wedge d \omega) \otimes b \equiv 0 . \end{aligned}` | $\begin{aligned} DDDb =&D(\Omega \otimes b)=(d \Omega+[\Omega, \omega]) \otimes b \\ =&(d \Omega+\Omega \wedge \omega-\omega \wedge \Omega) \otimes b \\ =&(d d \omega-d \omega \wedge \omega+\omega \wedge d \omega \\ & \quad+d \omega \wedge \omega-\omega \wedge \omega \wedge \omega \\ & \quad+\omega \wedge \omega \wedge \omega-\omega \wedge d \omega) \otimes b \equiv 0 . \end{aligned}$ | $\begin{aligned} DDDb &= D(\Omega \otimes b)=(d \Omega+[\Omega, \omega]) \otimes b \\ &= (d \Omega+\Omega \wedge \omega-\omega \wedge \Omega) \otimes b \\ &= (d d \omega-d \omega \wedge \omega+\omega \wedge d \omega \\ &\quad+d \omega \wedge \omega-\omega \wedge \omega \wedge \omega \\ &\quad+\omega \wedge \omega \wedge \omega-\omega \wedge d \omega) \otimes b \equiv 0 . \end{aligned}$ |
| mielke-geometrodynamics_EQ0115 (3.3.16) | 59 | 0.630 | `d F \equiv 0 \quad\left\{\begin{array}{l} \nabla \times \mathbf{E}+\frac{\partial \mathbf{B}}{\partial t} \equiv 0 \\ \nabla \cdot \mathbf{B} \equiv 0 \end{array}\right.` | $dF \equiv 0 \quad \left\{\begin{array}{l} \nabla \times \mathbf{E}+\frac{\partial \mathbf{B}}{\partial t} \equiv 0 \\ \nabla \cdot \mathbf{B} \equiv 0 \end{array}\right.$ | $dF \equiv 0 \quad \left\{\begin{array}{l} \nabla \times \mathbf{E}+\frac{\partial \mathbf{B}}{\partial t} \equiv 0 \\ \nabla \cdot \mathbf{B} \equiv 0 . \end{array}\right.$ |
| mielke-geometrodynamics_EQ0171 (3.6.6) | 70 | 0.630 | `i^{*} \gamma \wedge D_{ \pm} \psi=0 \quad \text { and } \quad F^{ \pm}=\frac{1}{2} \bar{\psi} \sigma_{ \pm} \psi=m \mathscr{P}_{ \pm},` | $i^{*} \gamma \wedge D_{ \pm} \psi=0 \quad \text { and } \quad F^{ \pm}=\frac{1}{2} \bar{\psi} \sigma_{ \pm} \psi=m \mathscr{P}_{ \pm},$ | $i^{*} \gamma \wedge D_{ \pm} \psi=0 \quad \text { and } \quad F^{ \pm}=\frac{1}{2} \bar{\psi} \sigma_{ \pm} \psi=m \mathscr{P}_{ \pm},$ |
| mielke-geometrodynamics_EQ0189 (3.7.19) | 74 | 0.631 | `{ }^{*} \Omega=(\stackrel{+}{-}) \Omega \text {. }` | ${}^{*} \Omega=(\stackrel{+}{-}) \Omega .$ | ${}^{*} \Omega=(\stackrel{+}{-}) \Omega .$ |
| mielke-geometrodynamics_EQ0788 (11.3.7) | 249 | 0.635 | `\left\{i \gamma^{\kappa} \nabla_{\kappa}^{()}-\frac{6}{n^{2}} \ell^{* 2} \gamma^{n+1} \gamma^{\mu} \bar{\psi} \gamma^{n+1} \gamma_{\mu} \psi-m\right\} \psi=0 .` | $\left\{i \gamma^{\kappa} \nabla_{\kappa}^{()}-\frac{6}{n^{2}} \ell^{* 2} \gamma^{n+1} \gamma^{\mu} \bar{\psi} \gamma^{n+1} \gamma_{\mu} \psi-m\right\} \psi=0 .$ | $\left\{i \gamma^{\kappa} \nabla_{\kappa}^{()}-\frac{6}{n^{2}} \ell^{* 2} \gamma^{n+1} \gamma^{\mu} \bar{\psi} \gamma^{n+1} \gamma_{\mu} \psi-m\right\} \psi=0 .$ |
| mielke-geometrodynamics_EQ0164 (3.5.12) | 68 | 0.636 | `L_{\mathrm{YM}}+L_{\infty}=(\stackrel{+}{-}) \frac{1}{2 \alpha_{g}} \operatorname{Tr}\left({ }^{*} \Omega \stackrel{-}{(+)} \Omega\right)^{2} \geq 0` | $L_{\mathrm{YM}}+L_{\infty}=(\stackrel{+}{-}) \frac{1}{2 \alpha_{g}} \operatorname{Tr}\left({ }^{*} \Omega \stackrel{-}{(+)} \Omega\right)^{2} \geq 0$ | $L_{\mathrm{YM}}+L_{\infty}=(\stackrel{+}{-}) \frac{1}{2 \alpha_{g}} \operatorname{Tr}({ }^{*} \Omega \stackrel{-}{(+)} \Omega)^{2} \geq 0$ |
| mielke-geometrodynamics_EQ0549 (8.4.3) | 179 | 0.637 | `\begin{aligned} L_{\mathrm{FP}} & :=-s \operatorname{Tr} \left\{\bar{\chi} \wedge^{*} \stackrel{ }{\Omega}^{g}+ \bar{\Phi} D^{*} \Psi+\frac{1}{2} \rho \bar{\chi} \wedge^{*} \beta+\bar{C} d^{*} \Gamma+\frac{1}{2} \bar{C} \wedge{ }^{*} \mathbb{B}\right\} \\ & =\frac{1}{2} s \left[\bar{\chi}^{\alpha \beta} \wedge{ }^{*} R_{\alpha \beta}^{( \pm)}+\bar{\Phi}_{\alpha \beta} D^{*} \Psi^{\alpha \beta}+\frac{1}{2} \rho \bar{\chi}^{\alpha \beta} \wedge{ }^{*} b_{\alpha \beta}+\widetilde{\Psi}_{ \mathrm{F}}\right] \end{aligned}` | $\begin{aligned} L_{\mathrm{FP}} &:=-s \operatorname{Tr} \left\{\bar{\chi} \wedge^{*} \stackrel{ }{\Omega}^{g}+ \bar{\Phi} D^{*} \Psi+\frac{1}{2} \rho \bar{\chi} \wedge^{*} \beta+\bar{C} d^{*} \Gamma+\frac{1}{2} \bar{C} \wedge{ }^{*} \mathbb{B}\right\} \\ & =\frac{1}{2} s \left[\bar{\chi}^{\alpha \beta} \wedge{ }^{*} R_{\alpha \beta}^{( \pm)}+\bar{\Phi}_{\alpha \beta} D^{*} \Psi^{\alpha \beta}+\frac{1}{2} \rho \bar{\chi}^{\alpha \beta} \wedge{ }^{*} b_{\alpha \beta}+\widetilde{\Psi}_{ \mathrm{F}}\right] \end{aligned}$ | $\begin{aligned} L_{\mathrm{FP}} &:=-s \operatorname{Tr} \left\{\bar{\chi} \wedge^{*} \stackrel{ }{\Omega}^{g}+ \bar{\Phi} D^{*} \Psi+\frac{1}{2} \rho \bar{\chi} \wedge^{*} \beta+\bar{C} d^{*} \Gamma+\frac{1}{2} \bar{C} \wedge{ }^{*} \mathbb{B}\right\} \\ & =\frac{1}{2} s \left[\bar{\chi}^{\alpha \beta} \wedge{ }^{*} R_{\alpha \beta}^{( \pm)}+\bar{\Phi}_{\alpha \beta} D^{*} \Psi^{\alpha \beta}+\frac{1}{2} \rho \bar{\chi}^{\alpha \beta} \wedge{ }^{*} b_{\alpha \beta}+\widetilde{\Psi}_{ \mathrm{F}}\right] . \end{aligned}$ (8 |
| mielke-geometrodynamics_EQ1058 (15.2.15) | 346 | 0.638 | `\bar{D}^{\{ \}}:=d+i \bar{\omega}^{\{ \}}` | $\bar{D}^{\{\}}:=d+i \bar{\omega}^{\{\}}$ | $\bar{D}^{\{\}}:=d+i \bar{\omega}^{\{\}}$ |

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| mielke-geometrodynamics_EQ1008 (14.4.3) | 325 | 0.640 | `\begin{aligned} d s^{2} & =-\frac{\Delta}{\rho^{2}} \left[c d t-J_{3} \frac{\hbar}{M} \sin ^{2} \vartheta d \phi\right]^{2}+\frac{\rho^{2}}{\Delta} d r+\rho^{2} d \vartheta^{2} \\ & +\frac{\sin ^{2} \vartheta}{\rho^{2}} \left\{\left[r^{2}+J(J+1) \frac{\hbar^{2}}{M^{2} c^{2}} \right] d \phi-J_{3} \frac{\hbar}{M} d t\right\}^{2} \end{aligned}` | $ds^2 = -\frac{\Delta}{\rho^2}\left[cdt - J_3\frac{\hbar}{M}\sin^2\vartheta d\phi\right]^2 + \frac{\rho^2}{\Delta}dr + \rho^2 d\vartheta^2 + \frac{\sin^2\vartheta}{\rho^2}\left\{\left[r^2 + J(J+1)\frac{\hbar^2}{M^2c^2}\right]d\phi - J_3\frac{\hbar}{M}dt\right\}^2$ | $ds^2 = -\frac{\Delta}{\rho^2}\left[cdt - J_3\frac{\hbar}{M}\sin^2\vartheta\, d\phi\right]^2 + \frac{\rho^2}{\Delta}dr + \rho^2 d\vartheta^2 + \frac{\sin^2\vartheta}{\rho^2}\left\{\left[r^2 + J(J+1)\frac{\hbar^2}{M^2c^2}\right]d\phi - J_3\frac{\hbar}{M}dt\right\}^2.$ |
| mielke-geometrodynamics_EQ0255 (4.3.20) | 93 | 0.642 | `\stackrel{*}{\sigma} \Omega^{g}=\frac{1}{4} R_{\alpha \beta}^{. . c d} L_{c d} \otimes \vartheta^{\alpha} \wedge \vartheta^{\beta} .` | $\overset{*}{\sigma}\,\Omega^g = \frac{1}{4}R_{\alpha\beta}^{..cd}L_{cd}\otimes\vartheta^\alpha\wedge\vartheta^\beta.$ | $\overset{*}{\sigma}\Omega^g = \frac{1}{4}R_{\alpha\beta}^{..cd}L_{cd}\otimes\vartheta^\alpha\wedge\vartheta^\beta.$ |
| mielke-geometrodynamics_EQ1015 (14.4.10) | 327 | 0.646 | `A={ }^{*} \omega=A^{(\circ)} \lambda_{3} .` | $A = {}^*\omega = A^{(\circ)}\lambda_3.$ | $A = \overset{*}{\sigma}\omega = A^{(\circ)}\lambda_3.$ |
| mielke-geometrodynamics_EQ0119 (3.3.20) | 59 | 0.646 | `\begin{aligned} \Sigma_{\alpha} & \left.\left.:=e_{ \alpha}\right\rfloor L-\left(e_{\alpha}\right\rfloor d A\right) \wedge \frac{\partial L}{\partial(d A)} \\ & \left.\left.=\frac{1}{2}\left[\left(e_{\alpha}\right\right \rfloor F\right) \wedge H-F \wedge\left(e_{\alpha}\right\right \rfloor H\right)\right] \end{aligned}` | $\Sigma_\alpha := e_\alpha\rfloor L - (e_\alpha\rfloor dA)\wedge\frac{\partial L}{\partial(dA)} = \frac{1}{2}\left[(e_\alpha\rfloor F)\wedge H - F\wedge(e_\alpha\rfloor H)\Big)\right]$ | $\Sigma_\alpha := e_\alpha\rfloor L - (e_\alpha\rfloor dA)\wedge\frac{\partial L}{\partial(dA)} = \frac{1}{2}[(e_\alpha\rfloor F)\wedge H - F\wedge(e_\alpha\rfloor H)]$ |
| mielke-geometrodynamics_EQ0120 (3.3.21) | 60 | 0.651 | `d \Sigma_{\alpha} \simeq\left(e_{\alpha} \downharpoonleft F\right) \wedge j` | $d\Sigma_\alpha \simeq (e_\alpha \downharpoonleft F)\wedge j$ | $d\Sigma_\alpha \simeq (e_\alpha\rfloor F)\wedge j$ |
| mielke-geometrodynamics_EQ0497 (7.7.15) | 163 | 0.653 | `d s^{2}=o_{\alpha \beta} \vartheta^{\alpha} \otimes \vartheta^{\beta}=g_{i j} d x^{i} \otimes d x^{j}, \quad o_{\alpha \beta}:=\operatorname{diag}\{1, \underbrace{-1, \cdots,-1}_{\text {sig }}\},` | $ds^2 = o_{\alpha\beta}\vartheta^\alpha\otimes\vartheta^\beta = g_{ij}dx^i\otimes dx^j, \quad o_{\alpha\beta} := \operatorname{diag}\{1, \underbrace{-1,\cdots,-1}_{\text{sig}}\},$ | $ds^2 = o_{\alpha\beta}\vartheta^\alpha\otimes\vartheta^\beta = g_{ij}dx^i\otimes dx^j, \quad o_{\alpha\beta} := \operatorname{diag}\{1, \underbrace{-1,\cdots,-1}_{\text{sig}}\},$ |
| mielke-geometrodynamics_EQ0800 (11.4.12) | 254 | 0.658 | `\left\{i \gamma^{k} \partial_{k}-\frac{3 i}{2 R_{\circ} \lambda} \gamma^{0}-\frac{m}{\lambda}\right\} \psi=0,` | $\left\{i\gamma^k\partial_k - \frac{3i}{2R_\circ\lambda}\gamma^0 - \frac{m}{\lambda}\right\}\psi = 0,$ | $\left\{i\gamma^k\partial_k - \frac{3i}{2R_\circ\lambda}\gamma^0 - \frac{m}{\lambda}\right\}\psi = 0,$ |
| mielke-geometrodynamics_EQ0316 (4.6.8) | 105 | 0.664 | `\Phi(\widetilde{\widetilde{\Gamma}}, \gamma)=\left(2 \pi \hbar \mathscr{M}_{n} G / \hbar \ell c^{2}\right)=2 \pi n` | $\Phi(\widetilde{\widetilde{\Gamma}}, \gamma) = \left(2\pi\hbar\mathscr{M}_n G/\hbar\ell c^2\right) = 2\pi n$ | $\Phi(\widetilde{\widetilde{\Gamma}}, \gamma) = (2\pi\hbar\mathscr{M}_n G/\hbar\ell c^2) = 2\pi n,$ |
| mielke-geometrodynamics_EQ0335 (5.3.12) | 113 | 0.665 | `\begin{aligned} \widetilde{T}_{\mu \nu} & =T_{\mu \nu}+ \ell^{* 2}\left\{-4 \tau_{\mu \cdot[\lambda]}^{\cdot \kappa} \tau_{\nu \cdot \mid \kappa]}^{\cdot \lambda}-2 \tau_{\mu}^{\cdot \kappa \lambda} \tau_{\nu \kappa \lambda}+\tau_{\cdot, \mu}^{\kappa \lambda} \tau_{\kappa \lambda \nu}\right. \\ & \left.+\frac{1}{2} g_{\mu \nu} \left(4 \tau_{\delta \cdot[\lambda}^{\cdot \kappa} \tau_{\cdot, \kappa]}^{\delta \lambda}+\tau^{\delta \kappa \lambda} \tau_{\delta \kappa \lambda}\right)\right\} . \end{aligned}` | $\widetilde{T}_{\mu\nu} = T_{\mu\nu} + \ell^{*2}\left\{-4\tau_{\mu\cdot[\lambda}^{\cdot\kappa}\tau_{\nu\cdot\mid\kappa]}^{\cdot\lambda} - 2\tau_\mu^{\cdot\kappa\lambda}\tau_{\nu\kappa\lambda} + \tau_{\cdot,\mu}^{\kappa\lambda}\tau_{\kappa\lambda\nu} + \frac{1}{2}g_{\mu\nu}\left(4\tau_{\delta\cdot[\lambda}^{\cdot\kappa}\tau_{\cdot,\kappa]}^{\delta\lambda} + \tau^{\delta\kappa\lambda}\tau_{\delta\kappa\lambda}\right)\right\}.$ | $\widetilde{T}_{\mu\nu} = T_{\mu\nu} + \ell^{*2}\Big\{-4\tau_{\mu\cdot[\lambda}^{\cdot\kappa}\tau_{\nu\cdot\mid\kappa]}^{\cdot\lambda} - 2\tau_\mu^{\cdot\kappa\lambda}\tau_{\nu\kappa\lambda} + \tau_{\cdot,\mu}^{\kappa\lambda}\tau_{\kappa\lambda\nu} + \frac{1}{2}g_{\mu\nu}(4\tau_{\delta\cdot[\lambda}^{\cdot\kappa}\tau_{\cdot,\kappa]}^{\delta\lambda} + \tau^{\delta\kappa\lambda}\tau_{\delta\kappa\lambda})\Big\}.$ |
| mielke-geometrodynamics_EQ1055 (15.2.12) | 345 | 0.665 | `\bar{L}_{\mathrm{w} .}(f)=\frac{i}{8} \operatorname{Tr} \left(\bar{\gamma} \wedge \bar{\gamma} \wedge^{*} \bar{\Omega}\right) .` | $\bar{L}_{\mathrm{w}.}(f) = \frac{i}{8}\operatorname{Tr}\left(\bar{\gamma}\wedge\bar{\gamma}\wedge^*\bar{\Omega}\right).$ | $\bar{L}_{\mathrm{w}.}(f) = \frac{i}{8}\operatorname{Tr}(\bar{\gamma}\wedge\bar{\gamma}\wedge^*\bar{\Omega}).$ |

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| mielke-geometrodynamics_EQ1145 (C.13) | 377 | 0.667 | `\stackrel{\circ}{g}_{l m}:=c_{l k}{ }^{i} c_{m i}{ }^{k}` | $\stackrel{\circ}{g}_{lm}:=c_{lk}{}^{i} c_{mi}{}^{k}$ | $\stackrel{\circ}{g}_{lm}:=c_{lk}{}^{i}\ c_{mi}{}^{k}$ |
| mielke-geometrodynamics_EQ0450 (7.2.3) | 151 | 0.676 | `\Omega^{g}=\stackrel{+}{\Omega}^{g}+\bar{\Omega}^{g}` | $\Omega^{g}=\stackrel{+}{\Omega}^{g}+\bar{\Omega}^{g}$ | $\Omega^{g}=\stackrel{+}{\Omega}^{g}+\bar{\Omega}^{g}$ |
| mielke-geometrodynamics_EQ0143 (3.4.14) | 64 | 0.679 | `\operatorname{div} \iota:=(-1)^{1+s *} d^{*} \iota=0` | $\operatorname{div} \iota:=(-1)^{1+s *} d^{*} \iota=0$ | $\operatorname{div} \iota:=(-1)^{1+s *} d^{*} \iota=0$ |
| mielke-geometrodynamics_EQ0472 (7.3.11) | 155 | 0.682 | `\stackrel{+}{\Omega}^{(t)}=0 \Longleftrightarrow R_{i j}^{\{ \}}=0 \Longleftrightarrow R_{i j}^{\{ \}}= \Lambda^{\prime} g_{i j} .` | *(not rendered)* | $\stackrel{+}{\Omega}^{(t)}=0 \Longleftrightarrow R_{ij}^{\{\}}=0 \Longleftrightarrow R_{ij}^{\{\}}=\Lambda' g_{ij}.$ |
| mielke-geometrodynamics_EQ0812 (11.4.24) | 256 | 0.686 | `\begin{aligned} & \partial_{\rho^{*}} H+\frac{1+ \kappa}{\rho} e^{(\nu-\mu) / 2} H=\frac{1}{\beta}\left[ \omega+e^{\nu / 2}-\varepsilon e^{-\mu}\left(H^{2}-F^{2}- \frac{2}{3} \mathrm{a} H^{2}\right)\right] F, \\ & \partial_{\rho^{*}} F+\frac{1-\kappa}{\rho} e^{(\nu- \mu) / 2} F=\frac{1}{\beta}\left[-\omega+e^{\nu / 2}- \varepsilon e^{-\mu}\left(H^{2}-F^{2}+\frac{2}{3} \mathrm{a} F^{2}\right)\right] H . \end{aligned}` | $\partial_{\rho^*} H+\frac{1+\kappa}{\rho} e^{(\nu-\mu)/2} H=\frac{1}{\beta}\left[\omega+e^{\nu/2}-\varepsilon e^{-\mu}\left(H^2-F^2-\frac{2}{3}\mathrm{a}H^2\right)\right] F,$ $\partial_{\rho^*} F+\frac{1-\kappa}{\rho} e^{(\nu-\mu)/2} F=\frac{1}{\beta}\left[-\omega+e^{\nu/2}-\varepsilon e^{-\mu}\left(H^2-F^2+\frac{2}{3}\mathrm{a}F^2\right)\right] H.$ | $\partial_{\rho^*} H+\frac{1+\kappa}{\rho} e^{(\nu-\mu)/2} H=\frac{1}{\beta}\left[\omega+e^{\nu/2}-\varepsilon e^{-\mu}\left(H^2-F^2-\frac{2}{3}\mathrm{a}H^2\right)\right] F,$ (11.4.2 $\partial_{\rho^*} F+\frac{1-\kappa}{\rho} e^{(\nu-\mu)/2} F=\frac{1}{\beta}\left[-\omega+e^{\nu/2}-\varepsilon e^{-\mu}\left(H^2-F^2+\frac{2}{3}\mathrm{a}F^2\right)\right] H.$ |
| mielke-geometrodynamics_EQ0321 (5.2.5) | 111 | 0.686 | `\tau_{\alpha \beta}:=\frac{\partial L_{\mathrm{D}}}{ \partial \Gamma^{\alpha \beta}}=\frac{1}{8} \bar{\Psi} \left({ }^{*} \gamma \sigma_{\alpha \beta}+\sigma_{\alpha \beta}{ }^{*} \gamma\right) \Psi=\frac{1}{4} \eta_{ \alpha \beta \gamma \delta} \bar{\Psi} \gamma^{\delta} \gamma_{5} \Psi \eta^{\gamma}=\tau_{\alpha \beta \gamma} \eta^{\gamma}` | $\tau_{\alpha\beta}:=\frac{\partial L_{\mathrm{D}}}{\partial\Gamma^{\alpha\beta}}=\frac{1}{8}\bar{\Psi}\left({}^*\gamma\sigma_{\alpha\beta}+\sigma_{\alpha\beta}{}^*\gamma\right)\Psi=\frac{1}{4}\eta_{\alpha\beta\gamma\delta}\bar{\Psi}\gamma^{\delta}\gamma_5\Psi\eta^{\gamma}=\tau_{\alpha\beta\gamma}\eta^{\gamma}$ | $\tau_{\alpha\beta}:=\frac{\partial L_{\mathrm{D}}}{\partial\Gamma^{\alpha\beta}}=\frac{1}{8}\overline{\Psi}\left({}^*\gamma\sigma_{\alpha\beta}+\sigma_{\alpha\beta}{}^*\gamma\right)\Psi=\frac{1}{4}\eta_{\alpha\beta\gamma\delta}\overline{\Psi}\gamma^{\delta}\gamma_5\Psi\eta^{\gamma}=\tau_{\alpha\beta\gamma}\eta^{\gamma}$ |
| mielke-geometrodynamics_EQ0389 (6.4.4) | 131 | 0.688 | `\mathscr{H}=\mathscr{K}-\dot{\Psi} \wedge\left(\frac{ \partial \mathscr{K}}{\partial \dot{\Psi}}\right),` | $\mathscr{H}=\mathscr{K}-\dot{\Psi}\wedge\left(\frac{\partial\mathscr{K}}{\partial\dot{\Psi}}\right),$ | $\mathscr{H}=\mathscr{K}-\dot{\underline{\Psi}}\wedge\left(\frac{\partial\mathscr{K}}{\partial\dot{\underline{\Psi}}}\right),$ |
| mielke-geometrodynamics_EQ0949 (14.1.30) | 307 | 0.688 | `\begin{aligned} D \Omega & =\left(D \xi+(-1)^{z} * \xi \wedge D \delta\right) \cos \delta \\ & +(-1)^{z}\left(D^{*} \xi-(-1)^{z} \xi \wedge D \delta\right) \sin \delta=0 . \end{aligned}` | $D\Omega=(D\xi+(-1)^z * \xi\wedge D\delta)\cos\delta$ $+(-1)^z(D^*\xi-(-1)^z\xi\wedge D\delta)\sin\delta=0.$ | $D\Omega=(D\xi+(-1)^z{}^*\xi\wedge D\delta)\cos\delta$ $+(-1)^z(D{}^*\xi-(-1)^z\xi\wedge D\delta)\sin\delta=0.$ |
| mielke-geometrodynamics_EQ0696 (10.5.7) | 224 | 0.694 | `\left.D^{*} \gamma={ }^{*} \gamma \wedge T, \quad T:=e_{ \alpha}\right\rfloor T^{\alpha},` | $D^*\gamma={}^*\gamma\wedge T,\quad T:=e_\alpha\rfloor T^\alpha,$ | $D^*\gamma={}^*\gamma\wedge T,\qquad T:=e_\alpha\rfloor T^\alpha,$ |
| mielke-geometrodynamics_EQ0534 (8.2.1) | 175 | 0.699 | `\begin{aligned} s \Gamma & =\Psi-D C \\ s C & =\Phi- \frac{1}{2}[C, C] \\ s \Omega^{g} & =-D \Psi-\left[C, \Omega^{g}\right] \\ s \Psi & =-D \Phi- [C, \Psi] \\ s \Phi & =-[C, \Phi] \end{aligned}` | $s\Gamma=\Psi-DC$ $sC=\Phi-\frac{1}{2}[C,C]$ $s\Omega^g=-D\Psi-[C,\Omega^g]$ $s\Psi=-D\Phi-[C,\Psi]$ $s\Phi=-[C,\Phi]$ | $s\Gamma=\Psi-DC,$ $sC=\Phi-\frac{1}{2}[C,C],$ $s\Omega^g=-D\Psi-[C,\Omega^g],$ $s\Psi=-D\Phi-[C,\Psi],$ $s\Phi=-[C,\Phi].$ |
| mielke-geometrodynamics_EQ0329 (5.3.6) | 112 | 0.699 | `D \Theta \equiv\left[\Omega^{g}, \gamma\right], \quad D \Omega^{g} \equiv 0,` | $D\Theta\equiv[\Omega^g,\gamma],\quad D\Omega^g\equiv 0,$ | $D\Theta\equiv[\Omega^g,\gamma],\qquad D\Omega^g\equiv 0,$ |
| mielke-geometrodynamics_EQ0471 (7.3.10) | 155 | 0.706 | `\bar{\Omega}^{\{ \}}=0 \Longleftrightarrow \Omega_{ \mathrm{C}}^{\{ \}}=0 \text { and } R^{\{ \}}=0 .` | $\bar{\Omega}^{\{\}}=0\Longleftrightarrow\Omega_{\mathrm{C}}^{\{\}}=0$ and $R^{\{\}}=0.$ | $\overline{\Omega}^{\{\}}=0\Longleftrightarrow\Omega_{\mathrm{C}}^{\{\}}=0$ and $R^{\{\}}=0.$ |

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| mielke-geometrodynamics_EQ0747 (11.1.14) | 240 | 0.706 | M=\mathbb{R} \times S^{3} \#^{v} W^{3} . | $M=\mathbb{R} \times S^{3} \#^{v} W^{3}$. | $M=\mathbb{R} \times S^{3} \#^{v} W^{3}$. |
| mielke-geometrodynamics_EQ0314 (4.6.6) | 105 | 0.710 | \Phi(\stackrel{\widetilde{\Gamma}}{\Gamma}, \gamma)=P \exp \left[(i / \hbar) \oint\left(\Gamma^{(T) \alpha} P_{ \alpha}+\Gamma_{\alpha}^{(L) \beta} L^{\alpha}{ }_{\beta} \right)\right] | $\Phi(\stackrel{\widetilde{\Gamma}}{\Gamma}, \gamma)=P \exp \left[(i / \hbar) \oint\left(\Gamma^{(T) \alpha} P_{ \alpha}+\Gamma_{\alpha}^{(L) \beta} L^{\alpha}{}_{\beta}\right)\right]$ | $\Phi(\stackrel{\approx}{\Gamma}, \gamma)=P \exp \left[(i / \hbar) \oint\left(\Gamma^{(T) \alpha} P_{ \alpha}+\Gamma_{\alpha}^{(L) \beta} L^{\alpha}{}_{\beta}\right)\right]$ |
| mielke-geometrodynamics_EQ0108 (3.3.9) | 58 | 0.711 | L_{\mathrm{Pontr}}=-\frac{1}{2} F \wedge F=-\frac{1}{2} d C, | $L_{\mathrm{Pontr}}=-\frac{1}{2} F \wedge F=-\frac{1}{2} d C,$ | $L_{\mathrm{Pontr}}=-\frac{1}{2} F \wedge F=-\frac{1}{2} d C,$ |
| mielke-geometrodynamics_EQ0545 (8.3.6) | 177 | 0.711 | d \rightarrow \exp (\zeta\rfloor) d \exp (-\zeta\rfloor) . | $d \rightarrow \exp(\zeta\rfloor) d \exp(-\zeta\rfloor)$. | $d \rightarrow \exp(\zeta\rfloor) d \exp(-\zeta\rfloor)$. |
| mielke-geometrodynamics_EQ0583 (9.1.1) | 192 | 0.712 | d s^{2}=-e^{v} d t^{2}+e^{\lambda} d r^{2}+r^{2} d \Omega^{n-2} | $ds^{2}=-e^{v} d t^{2}+e^{\lambda} d r^{2}+r^{2} d \Omega^{n-2}$ | $ds^{2}=-e^{v} d t^{2}+e^{\lambda} d r^{2}+r^{2} d \Omega^{n-2}$ |
| mielke-geometrodynamics_EQ0260 (4.3.25) | 94 | 0.718 | \stackrel{*}{\sigma} K=\frac{1}{2} K_{\alpha}^{. \beta c} L_{\beta c} \otimes \vartheta^{\alpha} . | $\stackrel{*}{\sigma} K=\frac{1}{2} K_{\alpha}^{. \beta c} L_{\beta c} \otimes \vartheta^{\alpha}$. | $\stackrel{*}{\sigma} K=\frac{1}{2} K_{\alpha}^{. \beta c} L_{\beta c} \otimes \vartheta^{\alpha}$. |
| mielke-geometrodynamics_EQ0878 (13.3.7) | 285 | 0.722 | \mathrm{SL}(n+1, \mathbb{R}) \approx \mathrm{A}_{*}(n, \mathbb{R}):=\mathbb{R}^{n} \otimes \mathrm{GL}(n, \mathbb{R}) \otimes \mathbb{R}_{*}^{n} . | $\mathrm{SL}(n+1, \mathbb{R}) \approx \mathrm{A}_{*}(n, \mathbb{R}):=\mathbb{R}^{n} \otimes \mathrm{GL}(n, \mathbb{R}) \otimes \mathbb{R}_{*}^{n}$. | $\mathrm{SL}(n+1, \mathbb{R}) \approx \mathrm{A}_{*}(n, \mathbb{R}):=\mathbb{R}^{n} \otimes \mathrm{GL}(n, \mathbb{R}) \otimes \mathbb{R}_{*}^{n}$. |
| mielke-geometrodynamics_EQ0041 (2.6.4) | 42 | 0.725 | \stackrel{*}{\sigma} \Omega=\frac{1}{2} F_{\alpha} \beta^{j} L_{j} \otimes \vartheta^{\alpha} \wedge \vartheta^{\beta} | $\stackrel{*}{\sigma} \Omega=\frac{1}{2} F_{\alpha} \beta^{j} L_{j} \otimes \vartheta^{\alpha} \wedge \vartheta^{\beta}$ | $\stackrel{*}{\sigma} \Omega=\frac{1}{2} F_{\alpha} \beta^{j} L_{j} \otimes \vartheta^{\alpha} \wedge \vartheta^{\beta}$ |
| mielke-geometrodynamics_EQ0574 (8.6.12) | 185 | 0.725 | L_{\mathrm{eff}}:=L_{\mathrm{qPG}}(* *)-d C_{\theta}=-\frac{\theta_{\mathrm{T}}^{*}}{2 \ell^{2}} R^{\{ \} \alpha \beta} \wedge \eta_{\alpha \beta}+\frac{\theta_{ \mathrm{T}}^{*} \Lambda_{\mathrm{eff}}}{\ell^{2}} \eta . | $L_{\mathrm{eff}}:=L_{\mathrm{qPG}}(**)-d C_{\theta}=-\frac{\theta_{\mathrm{T}}^{*}}{2 \ell^{2}} R^{\{\}\alpha \beta} \wedge \eta_{\alpha \beta}+\frac{\theta_{\mathrm{T}}^{*} \Lambda_{\mathrm{eff}}}{\ell^{2}} \eta$. | $L_{\mathrm{eff}}:=L_{\mathrm{qPG}}(**)-d C_{\theta}=-\frac{\theta_{\mathrm{T}}^{*}}{2 \ell^{2}} R^{\{\}\alpha \beta} \wedge \eta_{\alpha \beta}+\frac{\theta_{\mathrm{T}}^{*} \Lambda_{\mathrm{eff}}}{\ell^{2}} \eta$. |
| mielke-geometrodynamics_EQ0366 (6.2.13) | 126 | 0.725 | \stackrel{( \pm)}{L}_{\mathrm{EC}}:=L_{\mathrm{EC}} \pm i d C_{\mathrm{TT}}=-\frac{1}{2 \ell^{2}} \stackrel{( \pm)}{R}_{\alpha \beta} \wedge *^{*}\left(\vartheta^{ \alpha} \wedge \vartheta^{\beta}\right)+\frac{\Lambda}{ \ell^{2}} \eta . | $\stackrel{(\pm)}{L}_{\mathrm{EC}}:=L_{\mathrm{EC}} \pm i d C_{\mathrm{TT}}=-\frac{1}{2 \ell^{2}} \stackrel{(\pm)}{R}_{\alpha \beta} \wedge *^{*}\left(\vartheta^{\alpha} \wedge \vartheta^{\beta}\right)+\frac{\Lambda}{\ell^{2}} \eta$. | $\stackrel{(\pm)}{L}_{\mathrm{EC}}:=L_{\mathrm{EC}} \pm i d C_{\mathrm{TT}}=-\frac{1}{2 \ell^{2}} \stackrel{(\pm)}{R}_{\alpha \beta} \wedge *^{*}\left(\vartheta^{\alpha} \wedge \vartheta^{\beta}\right)+\frac{\Lambda}{\ell^{2}} \eta$. |
| mielke-geometrodynamics_EQ0585 (9.1.3) | 193 | 0.725 | d s^{2}=\frac{n-2}{2 \Lambda_{\text {eff }}} t^{2}} \left(-d t^{2}+d r^{2}\right)+\frac{(n-2)(n-3)}{2 \Lambda_{\text {eff. }}} d \Omega^{n-2} | $ds^{2}=\frac{n-2}{2 \Lambda_{\text{eff}} t^{2}}\left(-d t^{2}+d r^{2}\right)+\frac{(n-2)(n-3)}{2 \Lambda_{\text{eff.}}} d \Omega^{n-2}$ | $ds^{2}=\frac{n-2}{2 \Lambda_{\text{eff}} t^{2}}\left(-d t^{2}+d r^{2}\right)+\frac{(n-2)(n-3)}{2 \Lambda_{\text{eff.}}} d \Omega^{n-2}$ |
| mielke-geometrodynamics_EQ0021 (2.4.3) | 38 | 0.726 | \phi^{(p)}:=\varphi^{p} \otimes b \in C^{\infty}\left( \wedge^{p} T_{\mathbb{C}^{*}}(M) \otimes V^{\rho}\right), \quad b \in C^{\infty}\left(V^{\rho}\right) . | $\phi^{(p)}:=\varphi^{p} \otimes b \in C^{\infty}\left(\wedge^{p} T_{\mathbb{C}^{*}}(M) \otimes V^{\rho}\right), \quad b \in C^{\infty}\left(V^{\rho}\right)$. | $\phi^{(p)}:=\varphi^{p} \otimes b \in C^{\infty}\left(\wedge^{p} T_{\mathbb{C}^{*}}(M) \otimes V^{\rho}\right), \quad b \in C^{\infty}\left(V^{\rho}\right)$. |
| mielke-geometrodynamics_EQ0209 (4.2.1) | 85 | 0.728 | \stackrel{*}{\chi} \widetilde{\widetilde{\omega}}= \omega^{\mathrm{L}} \otimes \omega^{\mathrm{T}}, | $\stackrel{*}{\chi} \widetilde{\widetilde{\omega}}=\omega^{\mathrm{L}} \otimes \omega^{\mathrm{T}},$ | $\stackrel{*}{\chi} \stackrel{\approx}{\omega}=\omega^{\mathrm{L}} \otimes \omega^{\mathrm{T}},$ |
| mielke-geometrodynamics_EQ0309 (4.6.1) | 104 | 0.728 | \widetilde{\widetilde{\Gamma}}:=\Gamma^{(T) \alpha} P_{ \alpha}+\Gamma_{\alpha}^{(L) \beta} L^{\alpha}{ }_{\beta} | $\widetilde{\widetilde{\Gamma}}:=\Gamma^{(T) \alpha} P_{\alpha}+\Gamma_{\alpha}^{(L) \beta} L^{\alpha}{}_{\beta}$ | $\stackrel{\approx}{\Gamma}:=\Gamma^{(T) \alpha} P_{\alpha}+\Gamma_{\alpha}^{(L) \beta} L^{\alpha}{}_{\beta}$ |
| mielke-geometrodynamics_EQ0009 (2.2.4) | 34 | 0.729 | E_{i}^{\alpha} e^{i}{ }_{\beta}=\delta^{\alpha}{ }_{ \beta} . | $E_{i}^{\alpha} e^{i}{}_{\beta}=\delta^{\alpha}{}_{\beta}$. | $E_{i}^{\alpha} e^{i}{}_{\beta}=\delta^{\alpha}{}_{\beta}$. |
| mielke-geometrodynamics_EQ0384 (6.3.2) | 130 | 0.730 | H_{\alpha}^{\\|}=\frac{1}{\ell^{2}}\left[\vartheta^{\beta} \wedge{ }^{*}\left(d \vartheta_{\beta} \wedge \vartheta_{ \alpha}\right)-\frac{1}{2} \vartheta_{\alpha} \wedge{ }^{*}\left(d \vartheta^{\beta} \wedge \vartheta_{\beta} \right)\right]=\frac{1}{2 \ell^{2}} \Gamma^{\{\} \beta \gamma} \wedge \eta_{\alpha \beta \gamma} | $H_{\alpha}^{\\|}=\frac{1}{\ell^{2}}\left[\vartheta^{\beta} \wedge *\left(d \vartheta_{\beta} \wedge \vartheta_{\alpha}\right)-\frac{1}{2} \vartheta_{\alpha} \wedge *\left(d \vartheta^{\beta} \wedge \vartheta_{\beta}\right)\right]=\frac{1}{2 \ell^{2}} \Gamma^{\{\} \beta \gamma} \wedge \eta_{\alpha \beta \gamma}$ | $H_{\alpha}^{\\|}=\frac{1}{\ell^{2}}\left[\vartheta^{\beta} \wedge *\left(d \vartheta_{\beta} \wedge \vartheta_{\alpha}\right)-\frac{1}{2} \vartheta_{\alpha} \wedge *\left(d \vartheta^{\beta} \wedge \vartheta_{\beta}\right)\right]=\frac{1}{2 \ell^{2}} \Gamma^{\{\} \beta \gamma} \wedge \eta_{\alpha \beta \gamma}$ |

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| mielke-geometrodynamics_EQ0689 (10.3.47) | 222 | 0.731 | `\tilde{\Lambda}=(-1)^{s}{ }^{*} L(\star)+\frac{1}{3 \ell} \left[4 \gamma+(-1)^{s} \ell\right] *\left(R^{(\{ \} \star \alpha} \wedge \vartheta_{\alpha}\right),` | $\tilde{\Lambda}=(-1)^{s}{}^{*}L(\star)+\frac{1}{3\ell}\left[4\gamma+(-1)^{s}\ell\right]*\left(R^{(\{\star\alpha}\wedge\vartheta_{\alpha}\right),$ | $\tilde{\Lambda}=(-1)^{s}{}^{*}L(\star)+\frac{1}{3\ell}\left[4\gamma+(-1)^{s}\ell\right]{}^{*}\left(R^{(\{\star\alpha}\wedge\vartheta_{\alpha}\right),$ |
| mielke-geometrodynamics_EQ0662 (10.3.19) | 217 | 0.733 | `\square:=(-1)^{p n+s}\left[{ }^{*} D{ }^{*} D+(-1)^{n} D^{*} D^{*}\right]` | $\square:=(-1)^{pn+s}\left[{}^{*}D{}^{*}D+(-1)^{n}D^{*}D^{*}\right]$ | $\square:=(-1)^{pn+s}\left[{}^{*}D{}^{*}D+(-1)^{n}D{}^{*}D^{*}\right]$ |
| mielke-geometrodynamics_EQ1128 (B.40) | 373 | 0.735 | `\text { д ∂ } c \equiv 0,` | $\text{ д ∂ } c\equiv 0,$ | $\partial\,\partial\,c\equiv 0,$ |
| mielke-geometrodynamics_EQ0374 (6.2.25) | 127 | 0.742 | `\begin{aligned} \stackrel{( \pm)}{L}= & -\frac{i}{4} \ell^{2}\left[\stackrel{(+)}{\Pi}^{\alpha}-\stackrel{(-)}{\Pi^{\alpha}}\right] \wedge \stackrel{( \pm)}{\Pi}_{\alpha} \\ & -\frac{i}{4}\left[ \stackrel{(+)}{\Pi}^{\alpha \beta}-\stackrel{(-)}{\Pi}^{ \alpha \beta}\right] \wedge\left(\stackrel{( \pm)}{\Pi}_{ \alpha \beta} \mp \frac{i}{\ell^{2}} \vartheta_{\alpha} \wedge \vartheta_{\beta}-\frac{a_{0}}{2 \ell^{2}} \eta_{ \alpha \beta}\right) \end{aligned}` | $\begin{aligned}\overset{(\pm)}{L}= & -\frac{i}{4}\ell^{2}\left[\overset{(+)}{\Pi}{}^{\alpha}-\overset{(-)}{\Pi}{}^{\alpha}\right]\wedge\overset{(\pm)}{\Pi}{}_{\alpha} \\ & -\frac{i}{4}\left[\overset{(+)}{\Pi}{}^{\alpha\beta}-\overset{(-)}{\Pi}{}^{\alpha\beta}\right]\wedge\left(\overset{(\pm)}{\Pi}{}_{\alpha\beta}\mp\frac{i}{\ell^{2}}\vartheta_{\alpha}\wedge\vartheta_{\beta}-\frac{a_{0}}{2\ell^{2}}\eta_{\alpha\beta}\right)\end{aligned}$ | $\begin{aligned}\overset{(\pm)}{L}= & -\frac{i}{4}\ell^{2}\left[\overset{(+)}{\Pi}{}^{\alpha}-\overset{(-)}{\Pi}{}^{\alpha}\right]\wedge\overset{(\pm)}{\Pi}{}_{\alpha} \\ & -\frac{i}{4}\left[\overset{(+)}{\Pi}{}^{\alpha\beta}-\overset{(-)}{\Pi}{}^{\alpha\beta}\right]\wedge\left(\overset{(\pm)}{\Pi}{}_{\alpha\beta}\mp\frac{i}{\ell^{2}}\vartheta_{\alpha}\wedge\vartheta_{\beta}-\frac{a_{0}}{2\ell^{2}}\eta_{\alpha\beta}\right)\end{aligned}$ |
| mielke-geometrodynamics_EQ0524 (7.7.43) | 167 | 0.743 | `\Theta^{ \pm}:=\frac{1}{2}\left(\Theta \pm{ }^{*} \Theta\right), \quad \Omega^{g \pm}:=\frac{1}{2}\left( \Omega^{g} \pm{ }^{*} \Omega^{g}\right), \quad \Omega^{( \pm)}:=\frac{1}{2}\left(\Omega^{g} \pm \Omega^{g(\star)} \right),` | $\Theta^{\pm}:=\frac{1}{2}\left(\Theta\pm{}^{*}\Theta\right),\quad \Omega^{g\pm}:=\frac{1}{2}\left(\Omega^{g}\pm{}^{*}\Omega^{g}\right),\quad \Omega^{(\pm)}:=\frac{1}{2}\left(\Omega^{g}\pm\Omega^{g(\star)}\right),$ | $\Theta^{\pm}:=\frac{1}{2}\left(\Theta\pm{}^{*}\Theta\right),\qquad \Omega^{g\pm}:=\frac{1}{2}\left(\Omega^{g}\pm{}^{*}\Omega^{g}\right),\qquad \Omega^{(\pm)}:=\frac{1}{2}\left(\Omega^{g}\pm\Omega^{g(\star)}\right),$ |
| mielke-geometrodynamics_EQ0157 (3.5.5) | 67 | 0.746 | `{ }^{*} F_{\alpha \beta \mu \nu}^{*}=(\stackrel{+}{-}) F_{\alpha \beta \mu \nu}` | ${}^{*}F^{*}_{\alpha\beta\mu\nu}=(\overset{+}{-})F_{\alpha\beta\mu\nu}$ | ${}^{*}F^{*}_{\alpha\beta\mu\nu}=(\overset{+}{-})F_{\alpha\beta\mu\nu}$ |
| mielke-geometrodynamics_EQ1099 (B.10) | 369 | 0.746 | `\begin{aligned} \sigma_{*}\left(\alpha^{(p)}+\beta^{(p)} \right) & =\sigma_{*}\left(\alpha^{(p)}\right)+\sigma_{*} \left(\beta^{(p)}\right) \\ \sigma_{*}\left(\alpha^{(p)} \wedge \beta^{(q)}\right) & =\sigma_{*}\left(\alpha^{(p)} \right) \wedge \sigma_{*}\left(\beta^{(q)}\right) \\ d \left(\sigma_{*}\alpha^{(p)} \right) & =\sigma_{*}\left(d\alpha^{(p)}\right) \end{aligned}` | $\begin{aligned}\sigma_{*}\left(\alpha^{(p)}+\beta^{(p)}\right) & =\sigma_{*}\left(\alpha^{(p)}\right)+\sigma_{*}\left(\beta^{(p)}\right) \\ \sigma_{*}\left(\alpha^{(p)}\wedge\beta^{(q)}\right) & =\sigma_{*}\left(\alpha^{(p)}\right)\wedge\sigma_{*}\left(\beta^{(q)}\right) \\ d\left(\sigma_{*}\alpha^{(p)}\right) & =\sigma_{*}\left(d\alpha^{(p)}\right)\end{aligned}$ | $\begin{aligned}\sigma_{*}(\alpha^{(p)}+\beta^{(p)}) & =\sigma_{*}(\alpha^{(p)})+\sigma_{*}(\beta^{(p)}), \\ \sigma_{*}(\alpha^{(p)}\wedge\beta^{(q)}) & =\sigma_{*}(\alpha^{(p)})\wedge\sigma_{*}(\beta^{(q)}), \\ d(\sigma_{*}\alpha^{(p)}) & =\sigma_{*}(d\alpha^{(p)}).\end{aligned}$ |
| mielke-geometrodynamics_EQ0655 (10.3.12) | 216 | 0.746 | `\left.\left.E_{\alpha}=e_{\alpha}\right\rfloor L(\star)-\frac{2 \gamma \varepsilon^{2}}{\ell^{3}(1+\delta \varepsilon)} \eta_{\alpha}+(-1)^{s} \frac{2 \gamma}{ \ell(1+\delta \varepsilon)}\left[\left(e_{\alpha}\right\rfloor R^{\star \beta}\right) \wedge \vartheta_{\beta} \right] \text {, }` | $E_{\alpha}=e_{\alpha}\rfloor L(\star)-\frac{2\gamma\varepsilon^{2}}{\ell^{3}(1+\delta\varepsilon)}\eta_{\alpha}+(-1)^{s}\frac{2\gamma}{\ell(1+\delta\varepsilon)}\left[(e_{\alpha}\rfloor R^{\star\beta})\wedge\vartheta_{\beta}\right],$ | $E_{\alpha}=e_{\alpha}\rfloor L(\star)-\frac{2\gamma\varepsilon^{2}}{\ell^{3}(1+\delta\varepsilon)}\eta_{\alpha}+(-1)^{s}\frac{2\gamma}{\ell(1+\delta\varepsilon)}\left[(e_{\alpha}\rfloor R^{\star\beta})\wedge\vartheta_{\beta}\right],$ |
| mielke-geometrodynamics_EQ0477 (7.4.5) | 156 | 0.748 | `g_{i j}=\Omega^{2} o_{i j}^{\mathrm{Mink}}` | $g_{ij}=\Omega^{2}o_{ij}^{\mathrm{Mink}}$ | $g_{ij}=\Omega^{2}o_{ij}^{\mathrm{Mink}},$ |
| mielke-geometrodynamics_EQ0963 (14.2.3) | 312 | 0.750 | `\stackrel{\circ}{d} \stackrel{\circ}{\mathcal{U}}= \stackrel{\circ}{\vartheta} \wedge \stackrel{\circ}{ \vartheta} .` | $\overset{\circ}{d}\overset{\circ}{\mathcal{U}}=\overset{\circ}{\vartheta}\wedge\overset{\circ}{\vartheta}.$ | $\overset{\circ}{d}\overset{\circ}{\vartheta}=\overset{\circ}{\vartheta}\wedge\overset{\circ}{\vartheta}.$ |
| mielke-geometrodynamics_EQ0687 (10.3.45) | 222 | 0.753 | `\left.\left.-E_{\alpha}=-e_{\alpha}\right\rfloor L( \star)-(-1)^{s} \frac{2 \gamma}{\ell}\left(e_{\alpha} \right\rfloor R^{\{ \} \star \beta}\right) \wedge \vartheta_{\beta}=\ell \widetilde{\Sigma}_{\alpha}` | $-E_{\alpha}=-e_{\alpha}\rfloor L(\star)-(-1)^{s}\frac{2\gamma}{\ell}\left(e_{\alpha}\rfloor R^{\{\star\beta}\right)\wedge\vartheta_{\beta}=\ell\widetilde{\Sigma}_{\alpha}$ | $-E_{\alpha}=-e_{\alpha}\rfloor L(\star)-(-1)^{s}\frac{2\gamma}{\ell}(e_{\alpha}\rfloor R^{\{\star\beta})\wedge\vartheta_{\beta}=\ell\widetilde{\Sigma}_{\alpha}$ |

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| mielke-geometrodynamics_EQ0606 (9.2.5) | 199 | 0.753 | `\chi(M)=\int_{M}{ }^{*}\left(\gamma_{2}^{g}\right)-\frac{1}{(4 \pi)^{2}} \int_{\partial M}\left\{\alpha \wedge \Omega^{g(\star)}+\frac{2}{3} \alpha \wedge(\alpha \wedge \alpha)^{(\star)}\right\} .` | $\chi(M)=\int_{M}{}^{*}(\gamma_{2}^{g})-\frac{1}{(4\pi)^{2}}\int_{\partial M}\left\{\alpha\wedge\Omega^{g(\star)}+\frac{2}{3}\alpha\wedge(\alpha\wedge\alpha)^{(\star)}\right\}.$ | $\chi(M)=\int\limits_{M}\overset{*}{\pi}(\gamma_{2}^{g})-\frac{1}{(4\pi)^{2}}\int\limits_{\partial M}\left\{\alpha\wedge\Omega^{g(\star)}+\frac{2}{3}\alpha\wedge(\alpha\wedge\alpha)^{(\star)}\right\}.$ |
| mielke-geometrodynamics_EQ0992 (14.3.5) | 320 | 0.754 | `\stackrel{\circ}{\gamma}^{K+1} \chi_{\rho F}^{ \pm}(\xi)= \pm \chi_{\rho F}^{ \pm}(\xi)` | $\overset{\circ}{\gamma}{}^{K+1}\chi_{\rho F}^{\pm}(\xi)=\pm\chi_{\rho F}^{\pm}(\xi)$ | $\overset{\circ}{\gamma}{}^{K+1}\chi_{\rho F}^{\pm}(\xi)=\pm\chi_{\rho F}^{\pm}(\xi)$ |
| mielke-geometrodynamics_EQ0249 (4.3.14) | 92 | 0.755 | `D_{k} g_{i j}=E_{\cdot k}^{\alpha} \nabla_{\alpha} g_{i j}=0` | $D_{k}g_{ij}=E_{\cdot k}^{\alpha}\nabla_{\alpha}g_{ij}=0$ | $D_{k}\,g_{ij}=E_{\cdot k}^{\alpha}\nabla_{\alpha}g_{ij}=0$ |
| mielke-geometrodynamics_EQ0399 (6.4.17) | 133 | 0.755 | `\begin{aligned} {\left[D_{\alpha}, D_{\beta}\right] } & =-T_{\alpha \beta}{ }^{\gamma}(x) D_{\gamma}+R_{\alpha \beta \gamma}{ }^{\delta}(x) L^{\gamma}{ }_{\delta}, \ \ {\left[L^{\alpha}{ }_{\beta}, D_{\gamma}\right] } & = \delta_{\gamma}^{\alpha} D_{\beta}, \\ {\left[L^{\alpha}{ }_{\beta}, L^{\gamma}{ }_{\delta}\right] } & =\delta_{ \delta}^{\alpha} L^{\gamma}{ }_{\beta}-\delta_{\beta}^{ \gamma} L^{\alpha}{ }_{\delta}, \end{aligned}` | $\begin{aligned}[D_{\alpha}, D_{\beta}] &= -T_{\alpha\beta}{}^{\gamma}(x)D_{\gamma}+R_{\alpha\beta\gamma}{}^{\delta}(x)L^{\gamma}{}_{\delta},\\ [L^{\alpha}{}_{\beta}, D_{\gamma}] &= \delta_{\gamma}^{\alpha}D_{\beta},\\ [L^{\alpha}{}_{\beta}, L^{\gamma}{}_{\delta}] &= \delta_{\delta}^{\alpha}L^{\gamma}{}_{\beta}-\delta_{\beta}^{\gamma}L^{\alpha}{}_{\delta},\end{aligned}$ | $\begin{aligned}\left[D_{\alpha}, D_{\beta}\right] &= -T_{\alpha\beta}{}^{\gamma}(x)\,D_{\gamma}+R_{\alpha\beta\gamma}{}^{\delta}(x)\,L^{\gamma}{}_{\delta},\\ \left[L^{\alpha}{}_{\beta}, D_{\gamma}\right] &= \delta_{\gamma}^{\alpha}\,D_{\beta},\\ \left[L^{\alpha}{}_{\beta},\ L^{\gamma}{}_{\delta}\right] &= \delta_{\delta}^{\alpha}L^{\gamma}{}_{\beta}-\delta_{\beta}^{\gamma}L^{\alpha}{}_{\delta},\end{aligned}$ |
| mielke-geometrodynamics_EQ0957 (14.1.39) | 309 | 0.756 | `\partial_{\kappa} \delta=\sqrt{\|g\|} \varepsilon_{\kappa \lambda \rho \sigma} R^{\{ \} \sigma}{ }_{. \nu} \nabla^{\rho} R^{\{ \} \nu \lambda} /\left(R_{\alpha \beta}^{\{ \}} R^{\{ \} \alpha \beta}\right) .` | $\partial_{\kappa}\delta=\sqrt{\|g\|}\varepsilon_{\kappa\lambda\rho\sigma}R^{\{\}\sigma}{}_{.\nu}\nabla^{\rho}R^{\{\}\nu\lambda}/\left(R_{\alpha\beta}^{\{\}}R^{\{\}\alpha\beta}\right).$ | $\partial_{\kappa}\delta=\sqrt{\|g\|}\varepsilon_{\kappa\lambda\rho\sigma}\,R^{\{\}\sigma}{}_{.\nu}\nabla^{\rho}R^{\{\}\nu\lambda}/(R_{\alpha\beta}^{\{\}}R^{\{\}\alpha\beta}).$ |
| mielke-geometrodynamics_EQ0970 (14.2.11) | 314 | 0.758 | `\hat{\Omega}=\hat{d} \hat{\omega}-\hat{\omega}-\hat{ \omega} \wedge \hat{\omega}=\left[\begin{array}{l\|l} \Omega^{g}+\alpha \wedge \alpha^{\mathrm{T}} & -D \alpha \\ \hline \circ & \stackrel{\circ}{\Omega}+\alpha^{ \mathrm{T}} \wedge \alpha \end{array}\right] .` | $\hat{\Omega}=\hat{d}\hat{\omega}-\hat{\omega}-\hat{\omega}\wedge\hat{\omega}=\left[\begin{array}{c\|c}\Omega^{g}+\alpha\wedge\alpha^{\mathrm{T}} & -D\alpha\\ \hline \circ & \overset{\circ}{\Omega}+\alpha^{\mathrm{T}}\wedge\alpha\end{array}\right].$ | $\hat{\Omega}=\hat{d}\hat{\omega}-\hat{\omega}-\hat{\omega}\wedge\hat{\omega}=\left[\begin{array}{c\|c}\Omega^{g}+\alpha\wedge\alpha^{\mathrm{T}} & -D\alpha\\ \hline (\overset{\circ}{D}\alpha)^{\mathrm{T}} & \overset{\circ}{\Omega}+\alpha^{\mathrm{T}}\wedge\alpha\end{array}\right].$ |
| mielke-geometrodynamics_EQ1016 (14.4.11) | 327 | 0.758 | `d s^{2}=-\left(1-\left(\frac{r_{\circ}}{r}\right)^{4} \right) \frac{\Delta}{r^{2}} d t^{2}+\frac{r^{2}}{\Delta} d r^{2}+r^{2} d \Omega^{2} .` | $ds^{2}=-\left(1-\left(\frac{r_{\circ}}{r}\right)^{4}\right)\frac{\Delta}{r^{2}}dt^{2}+\frac{r^{2}}{\Delta}dr^{2}+r^{2}d\Omega^{2}.$ | $ds^{2}=-\left(1-\left(\frac{r_{\circ}}{r}\right)^{4}\right)\frac{\Delta}{r^{2}}dt^{2}+\frac{r^{2}}{\Delta}dr^{2}+r^{2}\,d\Omega^{2}.$ |
| mielke-geometrodynamics_EQ0310 (4.6.2) | 104 | 0.760 | `\begin{aligned} \widetilde{\widetilde{D}} \widetilde{ \xi}^{\alpha} & =d \xi^{\alpha}+\Gamma_{\beta}^{(L) \alpha} \wedge \xi^{\beta}+\Gamma^{(T) \alpha} \\ & =D \xi^{\alpha}+\Gamma^{(T) \alpha}=0 \end{aligned}` | $\begin{aligned}\widetilde{\widetilde{D}}\widetilde{\xi}^{\alpha} &= d\xi^{\alpha}+\Gamma_{\beta}^{(L)\alpha}\wedge\xi^{\beta}+\Gamma^{(T)\alpha}\\ &= D\xi^{\alpha}+\Gamma^{(T)\alpha}=0\end{aligned}$ | $\begin{aligned}\overset{\approx}{D}\,\overset{\approx}{\xi}{}^{\alpha} &= d\xi^{\alpha}+\Gamma_{\beta}^{(L)\alpha}\wedge\xi^{\beta}+\Gamma^{(T)\alpha}\\ &= D\xi^{\alpha}+\Gamma^{(T)\alpha}=0\,.\end{aligned}$ |
| mielke-geometrodynamics_EQ0832 (12.1.4) | 270 | 0.763 | `\left\langle d \widetilde{j_{5}}\right\rangle=0,` | $\left\langle d\widetilde{j_{5}}\right\rangle=0,$ | $\langle d\,\widetilde{j_{5}}\rangle=0\,,$ |
| mielke-geometrodynamics_EQ0231 (4.2.24) | 88 | 0.766 | `T_{\alpha \beta}^{. . c}=2 D_{[\alpha} E_{\cdot \mid \beta]}^{c}=2\left(\partial_{[\alpha} E_{\cdot \mid \beta]}^{c}+\Gamma_{[\alpha \mid d}^{. c} E_{\cdot \mid \beta]}^{d}\right) .` | $T_{\alpha\beta}^{..c}=2D_{[\alpha}E_{\cdot\|\beta]}^{c}=2\left(\partial_{[\alpha}E_{\cdot\|\beta]}^{c}+\Gamma_{[\alpha\|d}^{.c}E_{\cdot\|\beta]}^{d}\right).$ | $T_{\alpha\beta}^{..c}=2D_{[\alpha}E_{\cdot\|\beta]}^{c}=2\left(\partial_{[\alpha}E_{\cdot\|\beta]}^{c}+\Gamma_{[\alpha\|d}^{..c}E_{\cdot\|\beta]}^{d}\right).$ |
| mielke-geometrodynamics_EQ1079 (A.4) | 365 | 0.766 | `\left[\sigma^{i}, \sigma^{j}\right]=\varepsilon^{i j}{ }_{k} \sigma^{k}` | $\left[\sigma^{i},\sigma^{j}\right]=\varepsilon^{ij}{}_{k}\sigma^{k}$ | $[\sigma^{i},\sigma^{j}]=\varepsilon^{ij}{}_{k}\,\sigma^{k}$ |

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| mielke-geometrodynamics_EQ0276 (4.4.4) | 97 | 0.767 | `\begin{aligned} & \delta L_{g}=\delta \vartheta \wedge E-\delta \vartheta \wedge D \Pi^{\mathrm{T}}+d\left( \delta \vartheta \wedge \Pi^{\mathrm{T}}\right) \\ & -\left[\delta \omega^{g}, \vartheta\right] \wedge\left[ \Pi_{[]}^{\mathrm{T}}, \vartheta\right]-\delta \omega^{g} \wedge D \Pi^{\mathrm{L}}+d\left(\delta \omega^{g} \wedge \Pi^{\mathrm{L}}\right), \end{aligned}` | $\delta L_g = \delta\vartheta \wedge E - \delta\vartheta \wedge D\Pi^{\mathrm{T}} + d\left(\delta\vartheta \wedge \Pi^{\mathrm{T}}\right)$ $- [\delta\omega^g, \vartheta] \wedge \left[\Pi^{\mathrm{T}}_{[]}, \vartheta\right] - \delta\omega^g \wedge D\Pi^{\mathrm{L}} + d\left(\delta\omega^g \wedge \Pi^{\mathrm{L}}\right),$ | $\delta L_g = \delta\vartheta \wedge E - \delta\vartheta \wedge D\Pi^{\mathrm{T}} + d(\delta\vartheta \wedge \Pi^{\mathrm{T}})$ $- [\delta\omega^g, \vartheta] \wedge [\Pi^{\mathrm{T}}_{[\,]}, \vartheta] - \delta\omega^g \wedge D\Pi^{\mathrm{L}} + d(\delta\omega^g \wedge \Pi^{\mathrm{L}}),$ |
| mielke-geometrodynamics_EQ0613 (10.1.1) | 209 | 0.769 | `\vartheta^{\alpha}=E_{i}^{\alpha} d x^{i} \quad \text { and } \quad \Gamma_{\alpha}^{\star}:=\frac{1}{2} \eta_{ \alpha \beta \gamma} \Gamma^{\beta \gamma} .` | $\vartheta^\alpha = E_i^\alpha dx^i \quad \text{and} \quad \Gamma^\star_\alpha := \frac{1}{2}\eta_{\alpha\beta\gamma}\Gamma^{\beta\gamma}.$ | $\vartheta^\alpha = E_i^\alpha dx^i \quad \text{and} \quad \Gamma^\star_\alpha := \frac{1}{2}\eta_{\alpha\beta\gamma}\Gamma^{\beta\gamma}.$ |
| mielke-geometrodynamics_EQ1066 (16.2.5) | 355 | 0.770 | `\rho^{*}=\int_{o}^{\rho} \frac{d x}{1 \pm x^{2}}=\left\{ \begin{array}{l} \operatorname{artan} \rho, \kappa>0 \\ \operatorname{Arth} \rho, \kappa<0) \end{array}\right.` | $\rho^* = \int_o^\rho \frac{dx}{1 \pm x^2} = \left\{ \begin{array}{l} \operatorname{artan} \rho, \kappa > 0 \\ \operatorname{Arth} \rho, \kappa < 0) \end{array}\right.$ | $\rho^* = \int_o^\rho \frac{dx}{1 \pm x^2} = \left\{ \begin{array}{l} \operatorname{artan} \rho,\ \kappa > 0 \\ \operatorname{Arth} \rho,\ \kappa < 0). \end{array}\right.$ |
| mielke-geometrodynamics_EQ1030 (15.1.6) | 337 | 0.771 | `\begin{aligned} & \frac{1}{2} \vartheta^{g} \wedge^{*} \Omega^{g}+\Lambda^{*} \vartheta_{g}=\ell^{* 2}\left \{\Sigma_{\mathrm{m}}(\text { leptons })+\Sigma^{ \mathrm{g}}\right\}, \\ & \frac{1}{2} \vartheta^{f} \wedge^{*} \Omega^{f}=\ell^{2}\left\{\Sigma_{\mathrm{m}} \text { (hadrons) }+\Sigma^{\mathrm{f}}\right\} . \end{aligned}` | $\frac{1}{2}\vartheta^g \wedge {}^*\Omega^g + \Lambda^*\vartheta_g = \ell^{*2}\left\{\Sigma_{\mathrm{m}}(\text{ leptons }) + \Sigma^{\mathrm{g}}\right\},$ $\frac{1}{2}\vartheta^f \wedge {}^*\Omega^f = \ell^2\left\{\Sigma_{\mathrm{m}} \text{ (hadrons) } + \Sigma^{\mathrm{f}}\right\}.$ | $\frac{1}{2}\vartheta^g \wedge {}^*\Omega^g + \Lambda^*\vartheta_g = \ell^{*2}\left\{\Sigma_{\mathrm{m}}(\text{leptons}) + \Sigma^{\mathrm{g}}\right\},$ $\frac{1}{2}\vartheta^f \wedge {}^*\Omega^f = \ell^2\left\{\Sigma_{\mathrm{m}}(\text{hadrons}) + \Sigma^{\mathrm{f}}\right\}.$ |
| mielke-geometrodynamics_EQ0112 (3.3.13) | 59 | 0.772 | `\begin{aligned} j:= & -\mathscr{J} \wedge d t+\hat{\rho} \\ = & -\left(J_{x} d y \wedge d z+J_{y} d z \wedge d x+J_{z} d x \wedge d y\right) \wedge d t \\ & +\rho d x \wedge d y \wedge d z \end{aligned}` | $j := -\mathscr{J} \wedge dt + \hat\rho$ $= -(J_x dy \wedge dz + J_y dz \wedge dx + J_z dx \wedge dy) \wedge dt$ $+ \rho dx \wedge dy \wedge dz$ | $j := -\mathscr{J} \wedge dt + \hat\rho$ $= -(J_x dy \wedge dz + J_y dz \wedge dx + J_z dx \wedge dy) \wedge dt$ $+\rho dx \wedge dy \wedge dz\,.$ |
| mielke-geometrodynamics_EQ0130 (3.4.1) | 62 | 0.780 | `\mathscr{F}:=\frac{1}{\alpha_{g}} \operatorname{Tr}\left \{{ }^{*}\left(\Omega \wedge{ }^{*} \Omega\right)\right \}=\frac{1}{4 \alpha_{g}} F_{\alpha \beta}{ }^{j} F^{ \alpha \beta}{ }_{j}` | $\mathscr{F} := \frac{1}{\alpha_g}\operatorname{Tr}\left\{{}^*(\Omega \wedge {}^*\Omega)\right\} = \frac{1}{4\alpha_g} F_{\alpha\beta}{}^j F^{\alpha\beta}{}_j$ | $\mathscr{F} := \frac{1}{\alpha_g}\operatorname{Tr}\left\{{}^*(\Omega \wedge {}^*\Omega)\right\} = \frac{1}{4\alpha_g} F_{\alpha\beta}{}^j F^{\alpha\beta}{}_j$ |
| mielke-geometrodynamics_EQ0470 (7.3.9) | 155 | 0.782 | `{ }^{*} \Omega^{g(*)}=\zeta \Omega^{g},` | ${}^*\Omega^{g(*)} = \zeta\Omega^g,$ | ${}^*\Omega^{g(*)} = \zeta\Omega^g,$ |
| mielke-geometrodynamics_EQ0046 (2.6.9) | 43 | 0.783 | `\begin{aligned} \Delta b & =\int_{\partial U} \omega \otimes b=\int_{U} d(\omega \otimes b)_{\mathrm{hor}}= \int_{U} D(\omega \otimes b) \\ & =\int_{U} \Omega \otimes b \simeq \Omega \otimes b \end{aligned}` | $\Delta b = \int_{\partial U} \omega \otimes b = \int_U d(\omega \otimes b)_{\mathrm{hor}} = \int_U D(\omega \otimes b)$ $= \int_U \Omega \otimes b \simeq \Omega \otimes b$ | $\Delta b = \int_{\partial U} \omega \otimes b = \int_U d(\omega \otimes b)_{\mathrm{hor}} = \int_U D(\omega \otimes b)$ $= \int_U \Omega \otimes b \simeq \Omega \otimes b$ |
| mielke-geometrodynamics_EQ1049 (15.2.6) | 344 | 0.785 | `{ }^{*} \bar{\omega}=\bar{\omega}_{i}^{j} \bar{L}_{j} \otimes d x^{i}=\bar{\omega}_{i} d x^{i}` | ${}^*\bar\omega = \bar\omega_i^j \bar L_j \otimes dx^i = \bar\omega_i dx^i$ | ${}^*\bar\omega = \bar\omega_i{}^j\ \bar L_j \otimes dx^i = \bar\omega_i\, dx^i$ |
| mielke-geometrodynamics_EQ0133 (3.4.4) | 63 | 0.785 | `L_{\omega}=L\left(\mathscr{F},{ }^{*} \mathscr{F}\right) \eta .` | $L_\omega = L\left(\mathscr{F}, {}^*\mathscr{F}\right)\eta.$ | $L_\omega = L(\mathscr{F}, {}^*\mathscr{F})\eta.$ |

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| mielke-geometrodynamics_EQ0312 (4.6.4) | 104 | 0.786 | `\begin{aligned} \Delta \xi^{\alpha} & \left.\left.=-\oint_{C} y\right\rfloor\left(D D \xi^{\alpha}\right)=\oint_{C} y\right\rfloor R^{(T) \alpha}=\int_{S} R^{(T) \alpha} \\ & \simeq \frac{1}{2}\left(T_{i j}^{ \alpha}-R_{i j \beta}^{\alpha} \xi^{\beta}\right) \int_{S} d y^{i} \wedge d y^{j} \end{aligned}` | $\Delta \xi^{\alpha} =-\oint_{C} y\Big\rfloor\left(D D \xi^{\alpha}\right)=\oint_{C} y\Big\rfloor R^{(T) \alpha}=\int_{S} R^{(T) \alpha} \\ \simeq \frac{1}{2}\left(T_{i j}^{\alpha}-R_{i j \beta}^{\alpha} \xi^{\beta}\right) \int_{S} d y^{i} \wedge d y^{j}$ | $\Delta \xi^{\alpha} =-\oint_{C} y\rfloor\left(D D \xi^{\alpha}\right)=\oint_{C} y\rfloor R^{(T) \alpha}=\int_{S} R^{(T) \alpha} \\ \simeq \frac{1}{2}\left(T_{i j}^{\alpha}-R_{i j \beta}^{\alpha} \xi^{\beta}\right) \int_{S} d y^{i} \wedge d y^{j} .$ |
| mielke-geometrodynamics_EQ0224 (4.2.17) | 87 | 0.787 | `\widetilde{\widetilde{\varphi}} \rightarrow A^{-1} \widetilde{\widetilde{\varphi}}=G^{-1}(\widetilde{ \widetilde{\varphi}}-T) .` | $\widetilde{\widetilde{\varphi}} \rightarrow A^{-1} \widetilde{\widetilde{\varphi}}=G^{-1}(\widetilde{ \widetilde{\varphi}}-T) .$ | $\widetilde{\widetilde{\varphi}} \rightarrow A^{-1} \widetilde{\widetilde{\varphi}}=G^{-1}(\widetilde{ \widetilde{\varphi}}-T) .$ |
| mielke-geometrodynamics_EQ0941 (14.1.22) | 306 | 0.788 | `\tan 2 \delta=(-1)^{z} \frac{\operatorname{Tr}^{*}(\Omega \wedge \Omega)}{\operatorname{Tr}^{*}(\Omega \wedge * \Omega)} .` | $\tan 2 \delta=(-1)^{z} \frac{\operatorname{Tr}^{*}(\Omega \wedge \Omega)}{\operatorname{Tr}^{*}(\Omega \wedge * \Omega)} .$ | $\tan 2 \delta=(-1)^{z} \frac{\operatorname{Tr}^{*}(\Omega \wedge \Omega)}{\operatorname{Tr}^{*}(\Omega \wedge * \Omega)} .$ |
| mielke-geometrodynamics_EQ0760 (11.1.27) | 242 | 0.791 | `\left(\gamma^{n+1}\right)^{2}=\mp \mathbb{1} .` | $\left(\gamma^{n+1}\right)^{2}=\mp \mathbb{1} .$ | $\left(\gamma^{n+1}\right)^{2}=\mp \mathbb{1} .$ |
| mielke-geometrodynamics_EQ0725 (10.10.5) | 230 | 0.793 | `\delta_{\text {susy }} L \cong \bar{\sigma}\left(i \gamma^{\alpha} \Psi \wedge \frac{\delta L}{\delta \vartheta^{\alpha}}-2 D \frac{\delta L}{\delta \bar{ \Psi}}+c \gamma \wedge \frac{\delta L}{\delta \bar{\Psi}} \right)+2 d\left(\bar{\sigma} \wedge \frac{\delta L}{ \delta \Psi}\right) .` | $\delta_{\text {susy }} L \cong \bar{\sigma}\left(i \gamma^{\alpha} \Psi \wedge \frac{\delta L}{\delta \vartheta^{\alpha}}-2 D \frac{\delta L}{\delta \bar{\Psi}}+c \gamma \wedge \frac{\delta L}{\delta \bar{\Psi}}\right)+2 d\left(\bar{\sigma} \wedge \frac{\delta L}{\delta \Psi}\right) .$ | $\delta_{\text {susy }} L \cong \bar{\sigma}\left(i \gamma^{\alpha} \Psi \wedge \frac{\delta L}{\delta \vartheta^{\alpha}}-2 D \frac{\delta L}{\delta \bar{\Psi}}+c \gamma \wedge \frac{\delta L}{\delta \bar{\Psi}}\right)+2 d\left(\bar{\sigma} \wedge \frac{\delta L}{\delta \Psi}\right) .$ |
| mielke-geometrodynamics_EQ0810 (11.4.22) | 256 | 0.793 | `\frac{3}{8} \ell^{2} \bar{\psi} \psi=4 \pi m e^{-\mu- \nu / 2}\left(H^{2}-F^{2}\right)\left\|Y_{\kappa\|-1}^{\| \kappa\|-1}(\vartheta, \phi)\right\|^{2}` | $\frac{3}{8} \ell^{2} \bar{\psi} \psi=4 \pi m e^{-\mu- \nu / 2}\left(H^{2}-F^{2}\right)\left\|Y_{\kappa\|-1}^{\| \kappa\|-1}(\vartheta, \phi)\right\|^{2}$ | $\frac{3}{8} \ell^{2} \bar{\psi} \psi=4 \pi m e^{-\mu- \nu / 2}\left(H^{2}-F^{2}\right)\left\|Y_{\kappa\|-1}^{\| \kappa\|-1}(\vartheta, \phi)\right\|^{2}$ |
| mielke-geometrodynamics_EQ1032 (15.1.9) | 338 | 0.793 | `\frac{1}{2} *\left(\vartheta^{g} \wedge^{*} \Omega^{g} \right)+\Lambda \vartheta^{g}=0,` | $\frac{1}{2} *\left(\vartheta^{g} \wedge^{*} \Omega^{g} \right)+\Lambda \vartheta^{g}=0,$ | $\frac{1}{2} *\left(\vartheta^{g} \wedge^{*} \Omega^{g} \right)+\Lambda \vartheta^{g}=0,$ |
| mielke-geometrodynamics_EQ0305 (4.5.15) | 103 | 0.793 | `\varepsilon_{\mathrm{RC}}:=\xi^{\alpha} \Sigma_{\alpha}+ \left(e_{\beta} \downharpoonleft \overparen{D} \xi^{ \gamma}\right) \tau^{\beta}{ }_{\gamma},` | $\varepsilon_{\mathrm{RC}}:=\xi^{\alpha} \Sigma_{\alpha}+ \left(e_{\beta} \downharpoonleft \overparen{D} \xi^{ \gamma}\right) \tau^{\beta}{ }_{\gamma},$ | $\varepsilon_{\mathrm{RC}}:=\xi^{\alpha} \Sigma_{\alpha}+ \left(e_{\beta} \downharpoonleft \overparen{D} \xi^{ \gamma}\right) \tau^{\beta}{ }_{\gamma},$ |
| mielke-geometrodynamics_EQ0848 (12.3.1) | 274 | 0.794 | `\left\langle d j_{5}\right\rangle=2 i m\left\langle \bar{\psi} \gamma_{5} \psi\right\rangle \eta-\frac{1}{4 \pi^{2}} \operatorname{Tr}(G \wedge G)-\frac{1}{96 \pi^{2}}\left[2 R_{\alpha \beta}^{\{ \}} \wedge R^{\{ \beta \alpha \beta}+d \mathscr{A} \wedge d \mathscr{A} \right]` | $\left\langle d j_{5}\right\rangle=2 i m\left\langle \bar{\psi} \gamma_{5} \psi\right\rangle \eta-\frac{1}{4 \pi^{2}} \operatorname{Tr}(G \wedge G)-\frac{1}{96 \pi^{2}}\left[2 R_{\alpha \beta}^{\{ \}} \wedge R^{\{ \beta \alpha \beta}+d \mathscr{A} \wedge d \mathscr{A} \right]$ | $\left\langle d j_{5}\right\rangle=2 i m\left\langle \bar{\psi} \gamma_{5} \psi\right\rangle \eta-\frac{1}{4 \pi^{2}} \operatorname{Tr}(G \wedge G)-\frac{1}{96 \pi^{2}}\left[2 R_{\alpha \beta}^{\{ \}} \wedge R^{\{ \beta \alpha \beta}+d \mathscr{A} \wedge d \mathscr{A} \right]$ |
| mielke-geometrodynamics_EQ0319 (5.2.3) | 110 | 0.795 | `\begin{aligned} L_{\mathrm{D}} & =L\left(\gamma, \psi, D^{\{ \}} \psi\right)-\frac{i}{2} \bar{\psi}\left({ }^{*} \gamma \wedge K-K \wedge^{*} \gamma\right) \psi \\ & =L \left(\gamma, \psi, D^{\{ } \psi\right)+\frac{1}{4} \mathscr{A} \wedge j_{5} . \end{aligned}` | $\begin{aligned} L_{\mathrm{D}} & =L\left(\gamma, \psi, D^{\{ \}} \psi\right)-\frac{i}{2} \bar{\psi}\left({ }^{*} \gamma \wedge K-K \wedge^{*} \gamma\right) \psi \\ & =L \left(\gamma, \psi, D^{\{ } \psi\right)+\frac{1}{4} \mathscr{A} \wedge j_{5} . \end{aligned}$ | $\begin{aligned} L_{\mathrm{D}} & =L\left(\gamma, \psi, D^{\{ \}} \psi\right)-\frac{i}{2} \bar{\psi}\left({ }^{*} \gamma \wedge K-K \wedge^{*} \gamma\right) \psi \\ & =L \left(\gamma, \psi, D^{\{ } \psi\right)+\frac{1}{4} \mathscr{A} \wedge j_{5} . \end{aligned}$ |
| mielke-geometrodynamics_EQ0552 (8.4.6) | 179 | 0.797 | `\stackrel{+}{\Omega}^{g}:=\frac{1}{2}\left(\Omega^{g} \pm{ }^{*} \Omega^{g(\star)}\right)=0` | $\stackrel{+}{\Omega}^{g}:=\frac{1}{2}\left(\Omega^{g} \pm{ }^{*} \Omega^{g(\star)}\right)=0$ | $\stackrel{+}{\Omega}^{g}:=\frac{1}{2}\left(\Omega^{g} \pm{ }^{*} \Omega^{g(\star)}\right)=0$ |
| mielke-geometrodynamics_EQ1001 (14.3.14) | 323 | 0.798 | `(i \not D)^{2}:=-\operatorname{Tr}\left\{\gamma \wedge{ }^{*} D^{*}\left(\gamma \wedge{ }^{*} D\right)\right\} .` | $(i \not{D})^{2}:=-\operatorname{Tr}\left\{\gamma \wedge{ }^{*} D^{*}\left(\gamma \wedge{ }^{*} D\right)\right\} .$ | $(i \not{D})^{2}:=-\operatorname{Tr}\left\{\gamma \wedge{ }^{*} D^{*}\left(\gamma \wedge{ }^{*} D\right)\right\} .$ |

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| mielke-geometrodynamics_EQ0065 (2.8.8) | 47 | 0.803 | `c_{2}(M)=-\int_{M}^{*} \pi\left(\gamma_{2}\right)= \frac{1}{8 \pi^{2}} \int_{M} \operatorname{Tr}(\Omega \wedge \Omega) .` | $c_2(M)=-\int_M^* \pi\left(\gamma_2\right)=\frac{1}{8 \pi^2} \int_M \operatorname{Tr}(\Omega \wedge \Omega) .$ | $c_2(M)=-\int_M \overset{*}{\pi}(\gamma_2)=\frac{1}{8\pi^2}\int_M \operatorname{Tr}(\Omega\wedge\Omega).$ |
| mielke-geometrodynamics_EQ0652 (10.3.9) | 216 | 0.803 | `H_{\alpha}=-\frac{\gamma \varepsilon}{\ell^{2}(1+\delta \varepsilon)} \vartheta_{\alpha} \quad \Leftrightarrow \quad T_{\alpha}=\frac{\varepsilon}{\ell} \eta_{\alpha},` | $H_\alpha=-\frac{\gamma \varepsilon}{\ell^2(1+\delta \varepsilon)} \vartheta_\alpha \quad \Leftrightarrow \quad T_\alpha=\frac{\varepsilon}{\ell} \eta_\alpha,$ | $H_\alpha=-\frac{\gamma\varepsilon}{\ell^2(1+\delta\varepsilon)}\vartheta_\alpha \quad\Leftrightarrow\quad T_\alpha=\frac{\varepsilon}{\ell}\eta_\alpha,$ |
| mielke-geometrodynamics_EQ1065 (16.2.4) | 355 | 0.803 | `\rho:=\sqrt{\frac{1}{3} \Lambda_{\text {eff }}} r, \quad r=\|\mathbf{x}\|` | $\rho:=\sqrt{\frac{1}{3} \Lambda_{\text {eff }}} r, \quad r=\|\mathbf{x}\|$ | $\rho:=\sqrt{\frac{1}{3}\Lambda_{\text{eff}}}\ r, \quad r=\|\mathbf{x}\|$ |
| mielke-geometrodynamics_EQ0166 (3.6.1) | 69 | 0.806 | `\begin{aligned} L_{\mathrm{SW}}= & \frac{1}{2} \overline{D_{ \pm} \psi} \wedge^{*} D_{ \pm} \psi \mp i\left(F^{ \pm}-\frac{1}{2} \bar{\psi} \sigma_{ \pm} \psi \right)^{2} \\ = & \mp i \operatorname{Tr}\left(F^{ \pm} \wedge F^{ \pm}\right)+\frac{1}{2} \overline{D_{ \pm} \psi} \wedge{ }^{*} D_{ \pm} \psi \\ & \pm i \bar{\psi} \sigma_{ \pm} \psi \wedge F^{ \pm} \mp \frac{i}{4} \bar{ \psi} \sigma_{ \pm} \psi \wedge \bar{\psi} \sigma_{ \pm} \psi ; \end{aligned}` | $\begin{aligned} L_{\mathrm{SW}}= & \frac{1}{2} \overline{D_{ \pm} \psi} \wedge^{*} D_{ \pm} \psi \mp i\left(F^{ \pm}-\frac{1}{2} \bar{\psi} \sigma_{ \pm} \psi \right)^{2} \\ = & \mp i \operatorname{Tr}\left(F^{ \pm} \wedge F^{ \pm}\right)+\frac{1}{2} \overline{D_{ \pm} \psi} \wedge{ }^{*} D_{ \pm} \psi \\ & \pm i \bar{\psi} \sigma_{ \pm} \psi \wedge F^{ \pm} \mp \frac{i}{4} \bar{ \psi} \sigma_{ \pm} \psi \wedge \bar{\psi} \sigma_{ \pm} \psi ; \end{aligned}$ | $\begin{aligned} L_{\mathrm{SW}} &= \frac{1}{2}\overline{D_{\pm}\psi}\wedge{}^*D_{\pm}\psi \mp i\left(F^{\pm}-\frac{1}{2}\overline{\psi}\sigma_{\pm}\psi\right)^2 \\ &= \mp i\operatorname{Tr}\left(F^{\pm}\wedge F^{\pm}\right)+\frac{1}{2}\overline{D_{\pm}\psi}\wedge{}^*D_{\pm}\psi \\ &\quad \pm i\overline{\psi}\sigma_{\pm}\psi\wedge F^{\pm}\mp\frac{i}{4}\overline{\psi}\sigma_{\pm}\psi\wedge\overline{\psi}\sigma_{\pm}\psi\,; \end{aligned}$ |
| mielke-geometrodynamics_EQ1070 (16.2.9) | 356 | 0.806 | `V_{\mathrm{eff}}^{o}\left(\rho^{*}\right)=\left(\frac{1}{{ \beta^{2}}-2\right)\left[1+\tan ^{2} \rho^{*}\right]` | $V_{\mathrm{eff}}^{o}\left(\rho^{*}\right)=\left(\frac{1}{{ \beta^{2}}-2\right)\left[1+\tan ^{2} \rho^{*}\right]$ | $V_{\mathrm{eff}}^{o}(\rho^*)=\left(\frac{1}{\beta^2}-2\right)[1+\tan^2\rho^*]$ |
| mielke-geometrodynamics_EQ0446 (6.9.2) | 144 | 0.806 | `\begin{aligned} \stackrel{\theta}{L} & =\frac{1}{2 \ell}\left[T^{\alpha} \wedge{ }^{*} T_{\alpha}+\theta_{ \mathrm{T}}\left(T^{\alpha} \wedge T_{\alpha}+R_{\alpha \beta} \wedge \vartheta^{\alpha} \wedge \vartheta^{ \beta}\right)\right] \\ & +\frac{1}{2}\left[R^{\alpha \beta} \wedge{ }^{*} R_{\alpha \beta}+\theta_{\mathrm{L}} R^{\alpha \beta} \wedge R_{\alpha \beta}\right] . \end{aligned}` | $\begin{aligned} \stackrel{\theta}{L} & =\frac{1}{2 \ell}\left[T^{\alpha} \wedge{ }^{*} T_{\alpha}+\theta_{ \mathrm{T}}\left(T^{\alpha} \wedge T_{\alpha}+R_{\alpha \beta} \wedge \vartheta^{\alpha} \wedge \vartheta^{ \beta}\right)\right] \\ & +\frac{1}{2}\left[R^{\alpha \beta} \wedge{ }^{*} R_{\alpha \beta}+\theta_{\mathrm{L}} R^{\alpha \beta} \wedge R_{\alpha \beta}\right] . \end{aligned}$ | $\begin{aligned} \overset{\theta}{L} &= \frac{1}{2\ell}\Big[T^\alpha\wedge{}^*T_\alpha+\theta_{\mathrm{T}}\left(T^\alpha\wedge T_\alpha+R_{\alpha\beta}\wedge\vartheta^\alpha\wedge\vartheta^\beta\right)\Big] \\ &\quad +\frac{1}{2}\Big[R^{\alpha\beta}\wedge{}^*R_{\alpha\beta}+\theta_{\mathrm{L}}\,R^{\alpha\beta}\wedge R_{\alpha\beta}\Big]. \end{aligned}$ |
| mielke-geometrodynamics_EQ0610 (9.3.1) | 202 | 0.806 | `\begin{aligned} d C_{\mathrm{RR}^{(\star)}} & := \frac{1}{2} d\left(\Gamma_{\alpha \beta} \wedge R^{ \alpha \beta(\star)}-\frac{1}{3} \Gamma_{\alpha}{ }^{ \beta(\star)} \wedge \Gamma_{\beta}{ }^{\gamma} \wedge \Gamma_{\gamma}{ }^{\alpha}\right) \\ & \equiv-L_{ \mathrm{SKY}}-2 \operatorname{Ric}_{\alpha \beta} \wedge{ }^{*} \operatorname{Ric}^{ \alpha \beta}+\frac{1}{2} \operatorname{Ric}_{\alpha}{ }^{\alpha} \wedge{ }^{*} \operatorname{Ric}_{\beta}{ }^{\beta} \end{aligned}` | $\begin{aligned} d C_{\mathrm{RR}^{(\star)}} & := \frac{1}{2} d\left(\Gamma_{\alpha \beta} \wedge R^{ \alpha \beta(\star)}-\frac{1}{3} \Gamma_{\alpha}{ }^{ \beta(\star)} \wedge \Gamma_{\beta}{ }^{\gamma} \wedge \Gamma_{\gamma}{ }^{\alpha}\right) \\ & \equiv-L_{ \mathrm{SKY}}-2 \operatorname{Ric}_{\alpha \beta} \wedge{ }^{*} \operatorname{Ric}^{ \alpha \beta}+\frac{1}{2} \operatorname{Ric}_{\alpha}{ }^{\alpha} \wedge{ }^{*} \operatorname{Ric}_{\beta}{ }^{\beta} \end{aligned}$ | $\begin{aligned} dC_{\mathrm{RR}^{(\star)}} &:= \frac{1}{2}\,d\left(\Gamma_{\alpha\beta}\wedge R^{\alpha\beta(\star)}-\frac{1}{3}\Gamma_\alpha{}^{\beta(\star)}\wedge\Gamma_\beta{}^\gamma\wedge\Gamma_\gamma{}^\alpha\right) \\ &\equiv -L_{\mathrm{SKY}}-2\mathrm{Ric}_{\alpha\beta}\wedge{}^*\mathrm{Ric}^{\alpha\beta}+\frac{1}{2}\mathrm{Ric}_\alpha{}^\alpha\wedge{}^*\mathrm{Ric}_\beta{}^\beta \end{aligned}$ |
| mielke-geometrodynamics_EQ0767 (11.1.34) | 244 | 0.807 | `\psi \longrightarrow S^{-1} \psi=S^{-1} \psi` | $\psi \longrightarrow S^{-1} \psi=S^{-1} \psi$ | $\psi \longrightarrow {}^{S^{-1}}\psi = S^{-1}\psi$ |

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| mielke-geometrodynamics_EQ0267 (4.3.32) | 95 | 0.808 | \begin{aligned} & R_{(i j) \kappa l}^{\{ \}}=R_{i j( \kappa l)}^{\{ \}}=0 \\ & R_{i j \kappa l}^{\}}=R_{\kappa l i j}^{\}} . \end{aligned} | $R^{\{\}}_{(ij)\kappa l} = R^{\{\}}_{ij(\kappa l)} = 0$ <br> $R^{\}}_{ij\kappa l} = R^{\}}_{\kappa lij}.$ | $R^{\{\}}_{(ij)\kappa l} = R^{\{\}}_{ij(\kappa l)} = 0$ <br> $R^{\{\}}_{ij\kappa l} = R^{\{\}}_{\kappa lij}.$ |
| mielke-geometrodynamics_EQ0298 (4.5.8) | 101 | 0.811 | \begin{aligned} \delta L & =\delta g_{\alpha \beta} \wedge \frac{\partial L}{\partial g_{\alpha \beta}}+ \delta \vartheta^{\alpha} \wedge \frac{\partial L}{ \partial \vartheta^{\alpha}} \\ & +\delta \Gamma_{ \alpha}{ }^{\beta} \wedge I^{\alpha}{ }_{\beta} \Psi \wedge \frac{\partial L}{\partial D \Psi}+\delta \Psi \wedge \frac{\delta L}{\delta \Psi}+D\left(\delta \Psi \wedge \frac{\partial L}{\partial D \Psi}\right) \end{aligned} | $\delta L = \delta g_{\alpha\beta} \wedge \frac{\partial L}{\partial g_{\alpha\beta}} + \delta\vartheta^\alpha \wedge \frac{\partial L}{\partial \vartheta^\alpha}$ <br> $+ \delta\Gamma_\alpha{}^\beta \wedge I^\alpha{}_\beta \Psi \wedge \frac{\partial L}{\partial D\Psi} + \delta\Psi \wedge \frac{\delta L}{\delta \Psi} + D\left(\delta\Psi \wedge \frac{\partial L}{\partial D\Psi}\right)$ | $\delta L = \delta g_{\alpha\beta} \wedge \frac{\partial L}{\partial g_{\alpha\beta}} + \delta\vartheta^\alpha \wedge \frac{\partial L}{\partial \vartheta^\alpha}$ <br> $+ \delta\Gamma_\alpha{}^\beta \wedge I^\alpha{}_\beta \Psi \wedge \frac{\partial L}{\partial D\Psi} + \delta\Psi \wedge \frac{\delta L}{\delta \Psi} + D\left(\delta\Psi \wedge \frac{\partial L}{\partial D\Psi}\right).$ |
| mielke-geometrodynamics_EQ0919 (13.8.5) | 295 | 0.811 | D T^{\alpha} \equiv R_{\beta}{ }^{\alpha} \wedge \vartheta^{\beta} | $DT^\alpha \equiv R_\beta{}^\alpha \wedge \vartheta^\beta$ | $DT^\alpha \equiv R_\beta{}^\alpha \wedge \vartheta^\beta$ |
| mielke-geometrodynamics_EQ0802 (11.4.14) | 254 | 0.812 | \begin{aligned} & \left\{i \gamma^{0} \partial_{0}-e^{( \nu-\mu) / 2}\left[i \vec{\gamma} \cdot \vec{\partial}+i \gamma^{1} \partial_{r}\left(\frac{\mu}{2}+\frac{\nu}{4} \right)\right]\right. \\ & \left.+\frac{3 \varepsilon}{8} \ell^{2} e^{\nu / 2}\left(\bar{\psi} \psi-\mathrm{a} \bar{\psi} \gamma^{5} \psi \gamma^{5}\right)-e^{\nu / 2} m\right\} \psi=0 \end{aligned} | $\left\{i\gamma^0\partial_0 - e^{(\nu-\mu)/2}\left[i\vec{\gamma}\cdot\vec{\partial} + i\gamma^1\partial_r\left(\frac{\mu}{2}+\frac{\nu}{4}\right)\right]\right.$ <br> $\left.+\frac{3\varepsilon}{8}\ell^2 e^{\nu/2}\left(\bar{\psi}\psi - \mathrm{a}\bar{\psi}\gamma^5\psi\gamma^5\right) - e^{\nu/2}m\right\}\psi = 0$ | $\left\{i\gamma^0\partial_0 - e^{(\nu-\mu)/2}\left[i\vec{\gamma}\cdot\vec{\partial} + i\gamma^1\partial_r\left(\frac{\mu}{2}+\frac{\nu}{4}\right)\right]\right.$ <br> $\left.+\frac{3\varepsilon}{8}\ell^2 e^{\nu/2}(\bar{\psi}\psi - \mathrm{a}\bar{\psi}\gamma^5\psi\gamma^5) - e^{\nu/2}m\right\}\psi = 0$ |
| mielke-geometrodynamics_EQ0807 (11.4.19) | 255 | 0.812 | \vec{\sigma} \cdot \vec{L} \chi_{\kappa}^{m}=-(\kappa+1) \chi_{\kappa}^{m} . | $\vec{\sigma}\cdot\vec{L}\chi^m_\kappa = -(\kappa+1)\chi^m_\kappa.$ | $\vec{\sigma}\cdot\vec{L}\chi^m_\kappa = -(\kappa+1)\chi^m_\kappa.$ |
| mielke-geometrodynamics_EQ0397 (6.4.12) | 132 | 0.813 | \mathscr{H} \cong n^{\alpha} \mathscr{G}_{\alpha}+ \Gamma_{\perp}{ }^{\alpha \beta} \mathscr{G}_{\alpha \beta}, | $\mathscr{H} \cong n^\alpha \mathscr{G}_\alpha + \Gamma_\perp{}^{\alpha\beta}\mathscr{G}_{\alpha\beta},$ | $\mathscr{H} \cong n^\alpha \mathscr{G}_\alpha + \Gamma_\perp{}^{\alpha\beta}\mathscr{G}_{\alpha\beta},$ |
| mielke-geometrodynamics_EQ0709 (10.7.5) | 227 | 0.813 | R_{\beta}{ }^{\alpha} \wedge \vartheta^{\beta}=\frac{ \ell^{2}}{2} \varepsilon\left(x^{\alpha} Y \wedge X \wedge Y-y^{\alpha} X \wedge X \wedge Y\right)=0 . | $R_\beta{}^\alpha \wedge \vartheta^\beta = \frac{\ell^2}{2}\varepsilon\left(x^\alpha Y \wedge X \wedge Y - y^\alpha X \wedge X \wedge Y\right) = 0.$ | $R_\beta{}^\alpha \wedge \vartheta^\beta = \frac{\ell^2}{2}\varepsilon(x^\alpha Y \wedge X \wedge Y - y^\alpha X \wedge X \wedge Y) = 0.$ |
| mielke-geometrodynamics_EQ0210 (4.2.2) | 85 | 0.814 | \stackrel{* \approx}{\chi}=\left[\begin{array}{c\|c} \omega^{\mathrm{L}} & \omega^{\mathrm{T}} \\ \hline 0 & 0 \end{array}\right] . | $\overset{*\approx}{\chi}=\left[\begin{array}{c\|c} \omega^{\mathrm{L}} & \omega^{\mathrm{T}} \\ \hline 0 & 0 \end{array}\right].$ | $\overset{*\approx}{\chi}\omega=\left[\begin{array}{c\|c} \omega^{\mathrm{L}} & \omega^{\mathrm{T}} \\ \hline 0 & 0 \end{array}\right].$ |
| mielke-geometrodynamics_EQ0769 (11.1.36) | 244 | 0.817 | \widetilde{\omega} \longrightarrow {}^{S}\tilde{ \omega}=S \tilde{\omega} S^{-1}+(d S) S^{-1} | $\widetilde{\omega} \longrightarrow {}^S\tilde{\omega} = S\tilde{\omega}S^{-1} + (dS)S^{-1}$ | $\widetilde{\omega} \longrightarrow {}^S\tilde{\omega} = S\tilde{\omega}S^{-1} + (dS)S^{-1}$ |

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| mielke-geometrodynamics_EQ0398 (6.4.14) | 133 | 0.820 | `\begin{aligned} \left\{\mathscr{G}_{\alpha}(t, \mathbf{x}), \mathscr{G}_{\beta}(t, \mathbf{y})\right\} & =\left(-T_{\alpha \beta}{ }^{\gamma} \mathscr{G}_{ \gamma}+R_{\alpha \beta \gamma}{ }^{\delta} \mathscr{G}^{ \gamma}{ }_{\delta}\right) \cdot \delta(\mathbf{x}- \mathbf{y}), \\ \left\{\mathscr{G}^{\alpha}{ }_{\beta}(t, \mathbf{x}), \mathscr{G}_{\gamma}(t, \mathbf{y})\right\} & =\delta_{\beta}^{\gamma} \mathscr{G}_{\beta} \delta( \mathbf{x}-\mathbf{y}), \\ \left\{\mathscr{G}^{\alpha}{ }_{\beta}(t, \mathbf{x}), \mathscr{G}^{\gamma}{ }_{\delta}(t, \mathbf{y})\right\} & =\left(\delta_{\delta}^{\alpha} \mathscr{G}^{\gamma}{ }_{\beta}-\delta_{\beta}^{\gamma} \mathscr{G}^{\alpha}{ }_{\delta}\right) \cdot \delta(\mathbf{x}-\mathbf{y}) . \end{aligned}` | $\{\mathscr{G}_\alpha(t,\mathbf{x}),\mathscr{G}_\beta(t,\mathbf{y})\} = \left(-T_{\alpha\beta}{}^{\gamma}\mathscr{G}_\gamma + R_{\alpha\beta\gamma}{}^{\delta}\mathscr{G}^{\gamma}{}_{\delta}\right)\cdot\delta(\mathbf{x}-\mathbf{y}),$ $\{\mathscr{G}^{\alpha}{}_{\beta}(t,\mathbf{x}),\mathscr{G}_\gamma(t,\mathbf{y})\} = \delta^{\gamma}_{\beta}\mathscr{G}_\beta\delta(\mathbf{x}-\mathbf{y}),$ $\{\mathscr{G}^{\alpha}{}_{\beta}(t,\mathbf{x}),\mathscr{G}^{\gamma}{}_{\delta}(t,\mathbf{y})\} = \left(\delta^{\alpha}_{\delta}\mathscr{G}^{\gamma}{}_{\beta} - \delta^{\gamma}_{\beta}\mathscr{G}^{\alpha}{}_{\delta}\right)\cdot\delta(\mathbf{x}-\mathbf{y}).$ | $\{\mathscr{G}_\alpha(t,\mathbf{x}),\ \mathscr{G}_\beta(t,\mathbf{y})\} = \left(-T_{\alpha\beta}{}^{\gamma}\mathscr{G}_\gamma + R_{\alpha\beta\gamma}{}^{\delta}\mathscr{G}^{\gamma}{}_{\delta}\right)\cdot\delta(\mathbf{x}-\mathbf{y}),$ $\{\mathscr{G}^{\alpha}{}_{\beta}(t,\mathbf{x}),\ \mathscr{G}_\gamma(t,\mathbf{y})\} = \delta^{\gamma}_{\beta}\mathscr{G}_\beta\delta(\mathbf{x}-\mathbf{y}),$ $\{\mathscr{G}^{\alpha}{}_{\beta}(t,\mathbf{x}),\ \mathscr{G}^{\gamma}{}_{\delta}(t,\mathbf{y})\} = (\delta^{\alpha}_{\delta}\mathscr{G}^{\gamma}{}_{\beta} - \delta^{\gamma}_{\beta}\mathscr{G}^{\alpha}{}_{\delta})\cdot\delta(\mathbf{x}-\mathbf{y}).$ |
| mielke-geometrodynamics_EQ0059 (2.7.9) | 45 | 0.820 | `\bar{\varphi} \rightarrow{ }^{G^{-1}} \bar{\varphi}:= \bar{\varphi} G \quad \in C^{\infty}\left(V^{\bar{s}} \right) .` | $\bar{\varphi} \rightarrow{}^{G^{-1}} \bar{\varphi} := \bar{\varphi} G \quad \in C^{\infty}\left(V^{\bar{s}}\right) .$ | $\overline{\varphi} \rightarrow{}^{G^{-1}} \overline{\varphi} := \overline{\varphi} G \quad \in C^{\infty}(V^{\bar{s}}).$ |
| mielke-geometrodynamics_EQ0993 (14.3.6) | 320 | 0.822 | `\begin{aligned} \int_{G} \pi \hat{L}_{\mathrm{D} .} & =\frac{i}{2}\left(\bar{\psi} \gamma \wedge^{*} D^{g+ \omega} \psi+\left(\overline{D^{g+\omega} \psi}\right) \wedge^{*} \gamma \psi\right) \\ & +\frac{\hat{\ell}}{2}\bar{\psi}\gamma \wedge \gamma \wedge{ }^{*} \Omega \psi-\widehat{m} \bar{\psi} \psi \eta, \end{aligned}` | $\int_G \pi \hat{L}_{\mathrm{D.}} = \frac{i}{2}\left(\bar{\psi}\gamma \wedge^{*} D^{g+\omega}\psi + \left(\overline{D^{g+\omega}\psi}\right) \wedge^{*} \gamma\psi\right) + \frac{\hat{\ell}}{2}\bar{\psi}\gamma \wedge \gamma \wedge^{*}\Omega\psi - \widehat{m}\bar{\psi}\psi\eta,$ | $\int_G \pi \hat{L}_{\mathrm{D.}} = \frac{i}{2}\left(\overline{\psi}\gamma \wedge^{*} D^{g+\omega}\psi + (\overline{D^{g+\omega}\psi}) \wedge^{*} \gamma\psi\right) + \frac{\hat{\ell}}{2}\overline{\psi}\gamma \wedge \gamma \wedge^{*}\Omega\psi - \widehat{m}\overline{\psi}\psi\eta,$ |
| mielke-geometrodynamics_EQ0844 (12.2.12) | 273 | 0.831 | `\mathrm{L}=\frac{\mathrm{i}}{2 \ell^{2}} \operatorname{Tr}\left(\Omega \wedge^{*} \sigma\right)+ \mathrm{L}_{\mathrm{D}}=\frac{1}{2 \ell^{2}} \mathrm{R}^{ \alpha \beta} \wedge \eta_{\alpha \beta}+\mathrm{L}_{ \mathrm{D}},` | $\mathrm{L} = \frac{\mathrm{i}}{2\ell^2}\operatorname{Tr}(\Omega \wedge^{*} \sigma) + \mathrm{L_D} = \frac{1}{2\ell^2}\mathrm{R}^{\alpha\beta} \wedge \eta_{\alpha\beta} + \mathrm{L_D},$ | $\mathrm{L} = \frac{\mathrm{i}}{2\ell^2}\operatorname{Tr}(\Omega \wedge {}^{*}\sigma) + \mathrm{L_D} = \frac{1}{2\ell^2}\mathrm{R}^{\alpha\beta} \wedge \eta_{\alpha\beta} + \mathrm{L_D},$ |
| mielke-geometrodynamics_EQ0218 (4.2.10) | 86 | 0.836 | `\begin{aligned} & \omega^{\mathrm{L}} \rightarrow{ }^{A^{-1}} \omega^{\mathrm{L}}=G^{-1} \omega^{ \mathrm{L}} G-G^{-1} d G, \\ & \omega^{\mathrm{T}} \rightarrow{ }^{A^{-1}} \omega^{\mathrm{T}}=G^{-1} \omega^{\mathrm{T}}-G^{-1} D T . \end{aligned}` | $\omega^{\mathrm{L}} \rightarrow{}^{A^{-1}} \omega^{\mathrm{L}} = G^{-1}\omega^{\mathrm{L}}G - G^{-1}dG,$ $\omega^{\mathrm{T}} \rightarrow{}^{A^{-1}} \omega^{\mathrm{T}} = G^{-1}\omega^{\mathrm{T}} - G^{-1}DT.$ | $\omega^{\mathrm{L}} \rightarrow{}^{A^{-1}} \omega^{\mathrm{L}} = G^{-1}\omega^{\mathrm{L}}G - G^{-1}dG,$ $\omega^{\mathrm{T}} \rightarrow{}^{A^{-1}} \omega^{\mathrm{T}} = G^{-1}\omega^{\mathrm{T}} - G^{-1}DT.$ |
| mielke-geometrodynamics_EQ0240 (4.3.5) | 90 | 0.836 | `\begin{aligned} & F(m, f \vartheta)=\|f\| F(m, \vartheta), \\ & F(m, \vartheta)>0 \quad \text { if } \quad \vartheta \neq 0 . \end{aligned}` | $F(m, f\vartheta) = \|f\| F(m,\vartheta),$ $F(m,\vartheta) > 0 \quad \text{if} \quad \vartheta \neq 0.$ | $F(m, f\vartheta) = \|f\| F(m,\vartheta),$ $F(m,\vartheta) > 0 \quad \text{if} \quad \vartheta \neq 0.$ |
| mielke-geometrodynamics_EQ0445 (6.9.1) | 144 | 0.837 | `d s^{2}=-\left(1-\frac{2 M}{r}+\frac{Q^{2}}{r^{2}} \right) d t^{2}+\left(1-\frac{2 M}{r}+\frac{Q^{2}}{r^{2}} \right)^{-1} d r^{2}+r^{2} d \Omega^{2},` | $ds^2 = -\left(1 - \frac{2M}{r} + \frac{Q^2}{r^2}\right)dt^2 + \left(1 - \frac{2M}{r} + \frac{Q^2}{r^2}\right)^{-1} dr^2 + r^2 d\Omega^2,$ | $ds^2 = -\left(1 - \frac{2M}{r} + \frac{Q^2}{r^2}\right)dt^2 + \left(1 - \frac{2M}{r} + \frac{Q^2}{r^2}\right)^{-1} dr^2 + r^2 d\Omega^2,$ |
| mielke-geometrodynamics_EQ0227 (4.2.20) | 88 | 0.839 | `\widetilde{\widetilde{\vartheta}} \rightarrow^{A^{-1}} \widetilde{\widetilde{\vartheta}}=G^{-1} \widetilde{ \vartheta} .` | $\widetilde{\widetilde{\vartheta}} \rightarrow^{A^{-1}} \widetilde{\widetilde{\vartheta}} = G^{-1}\widetilde{\widetilde{\vartheta}}.$ | $\widetilde{\widetilde{\vartheta}} \rightarrow^{A^{-1}} \widetilde{\widetilde{\vartheta}} = G^{-1}\widetilde{\widetilde{\vartheta}}.$ |
| mielke-geometrodynamics_EQ0773 (11.2.2) | 245 | 0.840 | `i \gamma \wedge^{*} D \psi-\frac{i}{2}\left(D \wedge{ }^{*} \gamma\right) \psi-m \psi \eta=0` | $i\gamma \wedge^{*} D\psi - \frac{i}{2}(D \wedge^{*}\gamma)\psi - m\psi\eta = 0$ | $i\gamma \wedge^{*} D\psi - \frac{i}{2}(D \wedge^{*}\gamma)\psi - m\psi\eta = 0$ |

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| mielke-geometrodynamics_EQ0811 (11.4.23) | 256 | 0.840 | `\frac{3}{8} \ell^{2} \bar{\psi} \gamma^{5} \psi=4 \pi m e^{-\mu-v / 2} \frac{2}{3} H F\left\|Y_{\|\kappa\|-1}^{\|\kappa\|-1}(\vartheta, \phi)\right\|^{2}` | $\frac{3}{8} \ell^{2} \bar{\psi} \gamma^{5} \psi=4 \pi m e^{-\mu-v / 2} \frac{2}{3} H F\left\|Y_{\|\kappa\|-1}^{\|\kappa\|-1}(\vartheta, \phi)\right\|^{2}$ | $\frac{3}{8} \ell^{2} \bar{\psi} \gamma^{5} \psi=4 \pi m e^{-\mu-v / 2} \frac{2}{3} H F\left\|Y_{\|\kappa\|-1}^{\|\kappa\|-1}(\vartheta, \phi)\right\|^{2}$ |
| mielke-geometrodynamics_EQ0584 (9.1.2) | 192 | 0.843 | `\begin{aligned} e^{\nu}=e^{-\lambda} & =1-\left(\frac{2 \mu}{r}\right)^{n-3}-\frac{2 \Lambda_{\text {eff. }}}{(n-1)(n-2)} r^{2} \\ \mu & =\frac{M}{m^{* 2}} ; \quad d \Omega^{2}:=d \vartheta^{2}+\sin ^{2} \vartheta d \phi^{2} \end{aligned}` | $\begin{aligned} e^{\nu}=e^{-\lambda} & =1-\left(\frac{2 \mu}{r}\right)^{n-3}-\frac{2 \Lambda_{\text {eff. }}}{(n-1)(n-2)} r^{2} \\ \mu & =\frac{M}{m^{* 2}} ; \quad d \Omega^{2}:=d \vartheta^{2}+\sin ^{2} \vartheta d \phi^{2} \end{aligned}$ | $\begin{aligned} e^{\nu}=e^{-\lambda} & =1-\left(\frac{2 \mu}{r}\right)^{n-3}-\frac{2 \Lambda_{\text {eff. }}}{(n-1)(n-2)} r^{2} \\ \mu & =\frac{M}{m^{* 2}} ; \quad d \Omega^{2}:=d \vartheta^{2}+\sin ^{2} \vartheta d \phi^{2} \end{aligned}$ |
| mielke-geometrodynamics_EQ0349 (5.4.7) | 117 | 0.845 | `\left\langle d j_{5}\right\rangle=2 i m\left\langle\bar{ \psi} \gamma_{5} \psi\right\rangle \eta-\frac{1}{96 \pi^{2}}\left[2 R_{\alpha \beta}^{\{ \}} \wedge R^{\{ \beta \alpha \beta}+d \mathscr{A} \wedge d \mathscr{A} \right]` | $\left\langle d j_{5}\right\rangle=2 i m\left\langle\bar{ \psi} \gamma_{5} \psi\right\rangle \eta-\frac{1}{96 \pi^{2}}\left[2 R_{\alpha \beta}^{\{ \}} \wedge R^{\{ \beta \alpha \beta}+d \mathscr{A} \wedge d \mathscr{A} \right]$ | $\left\langle d j_{5}\right\rangle=2 i m\left\langle\bar{ \psi} \gamma_{5} \psi\right\rangle \eta-\frac{1}{96 \pi^{2}}\left[2 R_{\alpha \beta}^{\{ \}} \wedge R^{\{ \beta \alpha \beta}+d \mathscr{A} \wedge d \mathscr{A} \right]$ |
| mielke-geometrodynamics_EQ0792 (11.4.4) | 253 | 0.845 | `\begin{aligned} d s^{2} & =g_{k l} d x^{k} \otimes_{s} d x^{l} \\ & =e^{v} d t^{2}-e^{\mu}\left(d r^{2}+r^{2} d \vartheta^{2}+r^{2} \sin ^{2} \vartheta d \phi^{2}\right) . \end{aligned}` | $\begin{aligned} d s^{2} & =g_{k l} d x^{k} \otimes_{s} d x^{l} \\ & =e^{v} d t^{2}-e^{\mu}\left(d r^{2}+r^{2} d \vartheta^{2}+r^{2} \sin ^{2} \vartheta d \phi^{2}\right) . \end{aligned}$ | $\begin{aligned} d s^{2} & =g_{k l} d x^{k} \otimes_{s} d x^{l} \\ & =e^{v} d t^{2}-e^{\mu}\left(d r^{2}+r^{2} d \vartheta^{2}+r^{2} \sin ^{2} \vartheta d \phi^{2}\right) . \end{aligned}$ |
| mielke-geometrodynamics_EQ0742 (11.1.9) | 238 | 0.846 | `\Lambda:\left\{\begin{array}{cl} \widetilde{S O}_{\circ}(s, n-s) & \longrightarrow S O_{\circ}(s, n-s), \\ \stackrel{\Psi}{\Psi} & \longrightarrow g^{\alpha}{ }_{\beta}=-\frac{i}{N} \operatorname{Tr}\left(\gamma^{ \alpha} \operatorname{Si} \gamma_{\beta} S^{-1}\right), \end{array}\right.` | $\Lambda:\left\{\begin{array}{cl} \widetilde{S O}_{\circ}(s, n-s) & \longrightarrow S O_{\circ}(s, n-s), \\ \stackrel{\Psi}{\Psi} & \longrightarrow g^{\alpha}{}_{\beta}=-\frac{i}{N} \operatorname{Tr}\left(\gamma^{ \alpha} \operatorname{Si} \gamma_{\beta} S^{-1}\right), \end{array}\right.$ | $\Lambda:\left\{\begin{array}{cl} \widetilde{S O}_{\circ}(s, n-s) & \longrightarrow S O_{\circ}(s, n-s), \\ \stackrel{\Psi}{\Psi} & \longrightarrow g^{\alpha}{}_{\beta}=-\frac{i}{N} \operatorname{Tr}\left(\gamma^{ \alpha} \operatorname{Si} \gamma_{\beta} S^{-1}\right), \end{array}\right.$ |
| mielke-geometrodynamics_EQ0897 (13.5.2) | 288 | 0.846 | `\begin{aligned} \hat{R} & :=R_{A}{ }^{B} E^{A}{ }_{B}:= \left[d \Gamma_{A}{ }^{B}-\Gamma_{A}{ }^{C} \wedge \Gamma_{C}{ }^{B}\right] E^{A}{ }_{B} \\ & =\left[R_{ \alpha}{ }^{\beta}-\frac{\Lambda}{3} \theta_{\alpha} \wedge \vartheta^{\beta}\right] L^{\alpha}{ }_{\beta}+T^{ \beta} P_{\beta}+D \theta_{\alpha} P_{*}^{\alpha} \end{aligned}` | $\begin{aligned} \hat{R} & :=R_{A}{}^{B} E^{A}{}_{B}:= \left[d \Gamma_{A}{}^{B}-\Gamma_{A}{}^{C} \wedge \Gamma_{C}{}^{B}\right] E^{A}{}_{B} \\ & =\left[R_{ \alpha}{}^{\beta}-\frac{\Lambda}{3} \theta_{\alpha} \wedge \vartheta^{\beta}\right] L^{\alpha}{}_{\beta}+T^{ \beta} P_{\beta}+D \theta_{\alpha} P_{*}^{\alpha} \end{aligned}$ | $\begin{aligned} \hat{R} & :=R_{A}{}^{B} E^{A}{}_{B}:= \left[d \Gamma_{A}{}^{B}-\Gamma_{A}{}^{C} \wedge \Gamma_{C}{}^{B}\right] E^{A}{}_{B} \\ & =\left[R_{ \alpha}{}^{\beta}-\frac{\Lambda}{3} \theta_{\alpha} \wedge \vartheta^{\beta}\right] L^{\alpha}{}_{\beta}+T^{ \beta} P_{\beta}+D \theta_{\alpha} P_{*}^{\alpha} \end{aligned}$ |
| mielke-geometrodynamics_EQ0296 (4.5.7) | 101 | 0.847 | `F_{\alpha}=\left(e_{\alpha} \downharpoonleft D \Psi \right) \frac{\delta L}{\delta \Psi}+(-1)^{p}\left(e_{ \alpha} \downharpoonleft \Psi\right) \wedge D \frac{ \delta L}{\delta \Psi}` | $F_{\alpha}=\left(e_{\alpha} \downharpoonleft D \Psi\right) \frac{\delta L}{\delta \Psi}+(-1)^{p}\left(e_{\alpha} \downharpoonleft \Psi\right) \wedge D \frac{\delta L}{\delta \Psi}$ | $F_{\alpha}=\left(e_{\alpha} \downharpoonleft D \Psi\right) \frac{\delta L}{\delta \Psi}+(-1)^{p}\left(e_{\alpha} \downharpoonleft \Psi\right) \wedge D \frac{\delta L}{\delta \Psi}$ |
| mielke-geometrodynamics_EQ0241 (4.3.6) | 91 | 0.848 | `g_{\alpha \beta}(m, \vartheta):=\frac{1}{2} \frac{ \partial^{2} F^{2}(m, \vartheta)}{\partial \vartheta^{ \alpha} \otimes_{s} \partial \vartheta^{\beta}} .` | $g_{\alpha \beta}(m, \vartheta):=\frac{1}{2} \frac{\partial^{2} F^{2}(m, \vartheta)}{\partial \vartheta^{\alpha} \otimes_{s} \partial \vartheta^{\beta}} .$ | $g_{\alpha \beta}(m, \vartheta):=\frac{1}{2} \frac{\partial^{2} F^{2}(m, \vartheta)}{\partial \vartheta^{\alpha} \otimes_{s} \partial \vartheta^{\beta}} .$ |
| mielke-geometrodynamics_EQ0478 (7.4.6) | 157 | 0.849 | `\operatorname{Ric}_{\alpha \beta}:=\operatorname{Ric}_{ \alpha \beta}-\frac{1}{4} \operatorname{Rg}_{\alpha \beta}=0 .` | $\operatorname{Ric}_{\alpha \beta}:=\operatorname{Ric}_{\alpha \beta}-\frac{1}{4} \operatorname{Rg}_{\alpha \beta}=0 .$ | $\operatorname{Ric}_{\alpha \beta}:=\operatorname{Ric}_{\alpha \beta}-\frac{1}{4} \operatorname{Rg}_{\alpha \beta}=0 .$ |

| Identifier | Page | Conf. | LaTeX source | Rendered | Image |
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| mielke-geometrodynamics_EQ0295 (4.5.6) | 101 | 0.850 | `\begin{aligned} D \Sigma_{\alpha} & \left.\left.= \left(e_{\alpha}\right\rfloor T^{\beta}\right) \wedge \Sigma_{\beta}+\left(e_{\alpha}\right\rfloor R^{\beta \gamma}\right) \wedge \tau_{\beta \gamma}+F_{\alpha} \ \ & \left.\left.\simeq\left(e_{\alpha}\right\rfloor T^{\beta}\right) \wedge \Sigma_{\beta}+\left(e_{\alpha} \right\rfloor R^{\beta \gamma}\right) \wedge \tau_{\beta \gamma} . \end{aligned}` | $\begin{aligned} D \Sigma_{\alpha} & \left.\left.= \left(e_{\alpha}\right\rfloor T^{\beta}\right) \wedge \Sigma_{\beta}+\left(e_{\alpha}\right\rfloor R^{\beta \gamma}\right) \wedge \tau_{\beta \gamma}+F_{\alpha} \ \ & \left.\left.\simeq\left(e_{\alpha}\right\rfloor T^{\beta}\right) \wedge \Sigma_{\beta}+\left(e_{\alpha} \right\rfloor R^{\beta \gamma}\right) \wedge \tau_{\beta \gamma} . \end{aligned}$ | $\begin{aligned} D \Sigma_{\alpha} & \left.\left.= \left(e_{\alpha}\right\rfloor T^{\beta}\right) \wedge \Sigma_{\beta}+\left(e_{\alpha}\right\rfloor R^{\beta \gamma}\right) \wedge \tau_{\beta \gamma}+F_{\alpha} \ \ & \left.\left.\simeq\left(e_{\alpha}\right\rfloor T^{\beta}\right) \wedge \Sigma_{\beta}+\left(e_{\alpha} \right\rfloor R^{\beta \gamma}\right) \wedge \tau_{\beta \gamma} . \end{aligned}$ |
| mielke-geometrodynamics_EQ0842 (12.2.10) | 272 | 0.852 | `\mu:=e_{\alpha} \downharpoonleft \mu^{\alpha}= \frac{3}{4}{ }^{*} j_{5}` | $\mu:=e_{\alpha} \downharpoonleft \mu^{\alpha}=\frac{3}{4}{ }^{*} j_{5}$ | $\mu:=e_{\alpha} \downharpoonleft \mu^{\alpha}=\frac{3}{4}{ }^{*} j_{5}$ |
| mielke-geometrodynamics_EQ0506 (7.7.24) | 164 | 0.852 | `\gamma_{5}:=(i / 4!)^{*}(\gamma \wedge \gamma \wedge \gamma \wedge \gamma)` | $\gamma_{5}:=(i / 4!)^{*}(\gamma \wedge \gamma \wedge \gamma \wedge \gamma)$ | $\gamma_{5}:=(i / 4!)^{*}(\gamma \wedge \gamma \wedge \gamma \wedge \gamma)$ |
| mielke-geometrodynamics_EQ1014 (14.4.9) | 326 | 0.856 | `M^{2}=\left(M_{\mathrm{ir}}+\frac{\alpha_{e} M^{* 2}}{4 M_{\mathrm{ir}}} \operatorname{Tr} \bar{Q}^{2} \right)^{2}+\frac{1}{4} J(J+1) \frac{M^{* 4}}{M_{ \mathrm{ir}}^{2}},` | $M^{2}=\left(M_{\mathrm{ir}}+\frac{\alpha_{e} M^{* 2}}{4 M_{\mathrm{ir}}} \operatorname{Tr} \bar{Q}^{2} \right)^{2}+\frac{1}{4} J(J+1) \frac{M^{* 4}}{M_{ \mathrm{ir}}^{2}},$ | $M^{2}=\left(M_{\mathrm{ir}}+\frac{\alpha_{e} M^{* 2}}{4 M_{\mathrm{ir}}} \operatorname{Tr} \bar{Q}^{2} \right)^{2}+\frac{1}{4} J(J+1) \frac{M^{* 4}}{M_{ \mathrm{ir}}^{2}},$ |
| mielke-geometrodynamics_EQ0753 (11.1.20) | 241 | 0.859 | `\hat{\Psi}_{\mid \overparen{S O} \circ(1,3)}=\left[ \begin{array}{l} \Psi_{1} \\ \Psi_{2} \\ \vdots \\ \Psi_{ \left[\frac{n}{4}\right]} \end{array}\right] .` | $\hat{\Psi}_{\mid \overparen{S O} \circ(1,3)}=\left[ \begin{array}{l} \Psi_{1} \\ \Psi_{2} \\ \vdots \\ \Psi_{ \left[\frac{n}{4}\right]} \end{array}\right] .$ | $\hat{\Psi}_{\mid \overparen{S O} \circ(1,3)}=\left[ \begin{array}{l} \Psi_{1} \\ \Psi_{2} \\ \vdots \\ \Psi_{ \left[\frac{n}{4}\right]} \end{array}\right] .$ |
| mielke-geometrodynamics_EQ0783 (11.3.2) | 247 | 0.862 | `\begin{aligned} L_{\mathrm{D}} & =\frac{i}{2}\left( \bar{\psi} \gamma \wedge^{*} D^{\{ \}} \psi+\left( \overline{D^{\{ \}} \psi}\right) \wedge^{*} \gamma \psi \right)-m \bar{\psi} \psi \eta \ \ & +\frac{1}{2} \bar{ \psi}\left[\widetilde{K},{ }^{*} \gamma\right] \psi=: L_{ \mathrm{D}}^{\{ \}}+L_{\mathrm{NL}} . \end{aligned}` | $\begin{aligned} L_{\mathrm{D}} & =\frac{i}{2}\left( \bar{\psi} \gamma \wedge^{*} D^{\{ \}} \psi+\left( \overline{D^{\{ \}} \psi}\right) \wedge^{*} \gamma \psi \right)-m \bar{\psi} \psi \eta \ \ & +\frac{1}{2} \bar{ \psi}\left[\widetilde{K},{ }^{*} \gamma\right] \psi=: L_{ \mathrm{D}}^{\{ \}}+L_{\mathrm{NL}} . \end{aligned}$ | $\begin{aligned} L_{\mathrm{D}} & =\frac{i}{2}\left( \bar{\psi} \gamma \wedge^{*} D^{\{ \}} \psi+\left( \overline{D^{\{ \}} \psi}\right) \wedge^{*} \gamma \psi \right)-m \bar{\psi} \psi \eta \ \ & +\frac{1}{2} \bar{ \psi}\left[\widetilde{K},{ }^{*} \gamma\right] \psi=: L_{ \mathrm{D}}^{\{ \}}+L_{\mathrm{NL}} . \end{aligned}$ |
| mielke-geometrodynamics_EQ0369 (B.12) | 369 | 0.864 | `\begin{aligned} { }^{*} \alpha^{(p)}:=\frac{1}{(n-p)! \cdot(p!)} & \sqrt{\left|\operatorname{det} g_{ \mathrm{ij}}\right|} \varepsilon_{\alpha_{1} \cdots \alpha_{p} \beta_{1} \cdots \beta_{n-p}} \ \ & \times A^{\alpha_{1} \cdots \alpha_{p}} \vartheta^{\beta_{1}} \wedge \cdots \wedge \vartheta^{\beta_{n-p}} . \end{aligned}` | $\begin{aligned} { }^{*} \alpha^{(p)}:=\frac{1}{(n-p)! \cdot(p!)} & \sqrt{\left|\operatorname{det} g_{ \mathrm{ij}}\right|} \varepsilon_{\alpha_{1} \cdots \alpha_{p} \beta_{1} \cdots \beta_{n-p}} \ \ & \times A^{\alpha_{1} \cdots \alpha_{p}} \vartheta^{\beta_{1}} \wedge \cdots \wedge \vartheta^{\beta_{n-p}} . \end{aligned}$ | $\begin{aligned} { }^{*} \alpha^{(p)}:=\frac{1}{(n-p)! \cdot(p!)} & \sqrt{\left|\operatorname{det} g_{ \mathrm{ij}}\right|} \varepsilon_{\alpha_{1} \cdots \alpha_{p} \beta_{1} \cdots \beta_{n-p}} \ \ & \times A^{\alpha_{1} \cdots \alpha_{p}} \vartheta^{\beta_{1}} \wedge \cdots \wedge \vartheta^{\beta_{n-p}} . \end{aligned}$ |
| mielke-geometrodynamics_EQ0184 (3.7.14) | 74 | 0.864 | `\vec{\Omega}=d \vec{\omega}-(\overrightarrow{\omega \wedge}` | $\vec{\Omega}=d \vec{\omega}-(\overrightarrow{\omega \wedge}$ | $\vec{\Omega}=d \vec{\omega}-(\overrightarrow{\omega \wedge \vec{\omega}})=d \vec{\omega}-\vec{\omega} \wedge \vec{\omega} .$ |
| mielke-geometrodynamics_EQ0165 (3.5.13) | 69 | 0.865 | `{ }^{*} \Omega=(\stackrel{+}{-}) \Omega ;` | ${ }^{*} \Omega=(\stackrel{+}{-}) \Omega ;$ | ${ }^{*} \Omega=(\stackrel{+}{-}) \Omega ;$ |
| mielke-geometrodynamics_EQ0737 (11.1.4) | 238 | 0.867 | `x^{\alpha} \rightarrow x^{\prime \alpha}=g_{\beta}^{ \alpha} \quad x^{\beta},\left[g_{\beta}^{\alpha}\right] \in S O(s, n-s), \quad x^{\alpha} \in \mathbf{E}^{n} .` | $x^{\alpha} \rightarrow x^{\prime \alpha}=g_{\beta}^{\alpha} \quad x^{\beta},\left[g_{\beta}^{\alpha}\right] \in S O(s, n-s), \quad x^{\alpha} \in \mathbf{E}^{n} .$ | $x^{\alpha} \rightarrow x^{\prime \alpha}=g_{\beta}^{\alpha} \quad x^{\beta},\left[g_{\beta}^{\alpha}\right] \in S O(s, n-s), \quad x^{\alpha} \in \mathbf{E}^{n} .$ |

| Identifier | Page | Conf. | LaTeX source | Rendered | Image |
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| mielke-geometrodynamics_EQ0853 (12.3.6) | 276 | 0.868 | `\left\langle\vartheta^{\alpha} \wedge \sigma_{\alpha} \right\rangle=-\frac{1}{3 \pi^{2}}\left[\operatorname{Tr}\left(G \wedge{ }^{*} G\right)+\frac{1}{24}\left(2 R^{ \alpha \beta\{ \}} \wedge R_{\alpha \beta}^{\{j(\star)}+d \mathscr{A} \wedge^{*} d \mathscr{A}\right)\right],` | $\langle\vartheta^{\alpha} \wedge \sigma_{\alpha}\rangle=-\frac{1}{3\pi^{2}}\left[\operatorname{Tr}\left(G \wedge{ }^{*} G\right)+\frac{1}{24}\left(2 R^{ \alpha \beta\{ \}} \wedge R_{\alpha \beta}^{\{j(\star)}+d \mathscr{A} \wedge^{*} d \mathscr{A}\right)\right],$ | $\langle\vartheta^{\alpha} \wedge \sigma_{\alpha}\rangle=-\frac{1}{3\pi^{2}}\left[Tr\left(G \wedge{ }^{*} G\right)+\frac{1}{24}\left(2 R^{ \alpha \beta\{ \}} \wedge R_{\alpha \beta}^{\{j(\star)}+d \mathscr{A} \wedge^{*} d \mathscr{A}\right)\right],$ |
| mielke-geometrodynamics_EQ0774 (11.2.3) | 245 | 0.868 | `i(\overline{D \psi}) \wedge^{*} \gamma+\frac{i}{2} \bar{ \psi} D \wedge^{*} \gamma+m \bar{\psi} \eta=0,` | $i(\overline{D \psi}) \wedge^{*} \gamma+\frac{i}{2} \bar{\psi} D \wedge^{*} \gamma+m \bar{\psi} \eta=0,$ | $i(\overline{D \psi}) \wedge^{*} \gamma+\frac{i}{2} \bar{\psi} D \wedge^{*} \gamma+m \bar{\psi} \eta=0,$ |
| mielke-geometrodynamics_EQ0548 (8.4.2) | 178 | 0.871 | `s L_{\text {Pontr }}=-2 d \operatorname{Tr}\left\{\Psi \wedge \Omega^{g}\right\}=-d\left(\Psi_{\alpha}{ }^{ \beta} \wedge R_{\beta}{ }^{\alpha}\right) .` | $s L_{\text {Pontr }}=-2 d \operatorname{Tr}\left\{\Psi \wedge \Omega^{g}\right\}=-d\left(\Psi_{\alpha}{ }^{ \beta} \wedge R_{\beta}{ }^{\alpha}\right) .$ | $s L_{\text {Pontr }}=-2 d \operatorname{Tr}\left\{\Psi \wedge \Omega^{g}\right\}=-d\left(\Psi_{\alpha}{ }^{ \beta} \wedge R_{\beta}{ }^{\alpha}\right) .$ |
| mielke-geometrodynamics_EQ0244 (4.3.9) | 91 | 0.873 | `g_{i j} e_{\alpha}^{\cdot i} e_{\beta}^{j}=g_{\alpha \beta} .` | $g_{i j} e_{\alpha}^{\cdot i} e_{\beta}^{j}=g_{\alpha \beta} .$ | $g_{i j} e_{\alpha}^{\cdot i} e_{\beta}^{j}=g_{\alpha \beta} .$ |
| mielke-geometrodynamics_EQ0890 (13.4.9) | 287 | 0.876 | `\hat{\xi}=\binom{\xi}{1}=\binom{\xi^{\alpha} P_{ \alpha}}{1}, \quad \hat{\xi_{*}}=\left(\xi_{*}, 1\right)= \left(\xi_{\beta}^{*} P_{*}^{\beta}, 1\right)` | $\hat{\xi}=\binom{\xi}{1}=\binom{\xi^{\alpha} P_{ \alpha}}{1}, \quad \hat{\xi_{*}}=\left(\xi_{*}, 1\right)= \left(\xi_{\beta}^{*} P_{*}^{\beta}, 1\right)$ | $\hat{\xi}=\binom{\xi}{1}=\binom{\xi^{\alpha} P_{ \alpha}}{1}, \quad \hat{\xi_{*}}=\left(\xi_{*}, 1\right)= \left(\xi_{\beta}^{*} P_{*}^{\beta}, 1\right)$ |
| mielke-geometrodynamics_EQ1007 (14.4.2) | 325 | 0.877 | `\begin{aligned} A^{(\circ)} & =\stackrel{*}{\sigma} \omega^{(\circ)}=-\frac{r^{2}}{\rho^{2}}\left[d t-J_{3} \frac{\hbar}{M c} \sin ^{2} \vartheta d \phi\right] Q^{( \circ)} \cos \delta \\ & -\frac{\cos \vartheta}{\rho^{2}}\left[\left(r^{2}+J(J+1) \frac{\hbar^{2}}{M^{2} c^{2}}\right) d \phi-J_{3} \frac{\hbar}{M} d t\right] P^{( \circ)} \sin \delta \end{aligned}` | $\begin{aligned} A^{(\circ)} & =\stackrel{*}{\sigma} \omega^{(\circ)}=-\frac{r^{2}}{\rho^{2}}\left[d t-J_{3} \frac{\hbar}{M c} \sin ^{2} \vartheta d \phi\right] Q^{( \circ)} \cos \delta \\ & -\frac{\cos \vartheta}{\rho^{2}}\left[\left(r^{2}+J(J+1) \frac{\hbar^{2}}{M^{2} c^{2}}\right) d \phi-J_{3} \frac{\hbar}{M} d t\right] P^{( \circ)} \sin \delta \end{aligned}$ | $\begin{aligned} A^{(\circ)} & =\stackrel{*}{\sigma} \omega^{(\circ)}=-\frac{r^{2}}{\rho^{2}}\left[d t-J_{3} \frac{\hbar}{M c} \sin ^{2} \vartheta d \phi\right] Q^{( \circ)} \cos \delta \\ & -\frac{\cos \vartheta}{\rho^{2}}\left[\left(r^{2}+J(J+1) \frac{\hbar^{2}}{M^{2} c^{2}}\right) d \phi-J_{3} \frac{\hbar}{M} d t\right] P^{( \circ)} \sin \delta . \end{aligned}$ |
| mielke-geometrodynamics_EQ1062 (16.2.1) | 355 | 0.877 | `\left[\square-(\mathrm{mc} / \hbar)^{2}\right] \varphi=0` | $\left[\square-(\mathrm{mc} / \hbar)^{2}\right] \varphi=0$ | $[\square-(mc / \hbar)^{2}] \varphi=0$ |
| mielke-geometrodynamics_EQ0051 (2.7.1) | 44 | 0.881 | `G(p): P \rightarrow P, \quad G(p) \in \mathscr{G}_{p}` | $G(p): P \rightarrow P, \quad G(p) \in \mathscr{G}_{p}$ | $G(p): P \rightarrow P, \quad G(p) \in \mathscr{G}_{p}$ |
| mielke-geometrodynamics_EQ0178 (3.7.8) | 72 | 0.881 | `\left\langle\left. O\right\|^{\lambda} \varphi \mid O \right\rangle=\mu / \sqrt{\lambda}` | $\left\langle\left. O\right\|^{\lambda} \varphi \mid O \right\rangle=\mu / \sqrt{\lambda}$ | $\left\langle\left. O\right\|^{\lambda} \varphi \mid O \right\rangle=\mu / \sqrt{\lambda}$ |
| mielke-geometrodynamics_EQ0028 (2.5.1) | 40 | 0.885 | `V_{p}^{*}=T_{p}^{*}\left(F_{m}(M)\right),` | $V_{p}^{*}=T_{p}^{*}\left(F_{m}(M)\right),$ | $V_{p}^{*}=T_{p}^{*}\left(F_{m}(M)\right),$ |
| mielke-geometrodynamics_EQ0920 (13.8.6) | 295 | 0.888 | `\begin{aligned} d C_{\mathrm{RR}(\star)} & :=\frac{1}{2} d\left(\Gamma_{\alpha \beta} \wedge R^{\alpha \beta( \star)}-\frac{1}{3} \Gamma_{\alpha}{ }^{\beta( \star)} \wedge \Gamma_{\beta}{ }^{\gamma} \wedge \Gamma_{\gamma}{ }^{\alpha}\right) \\ & \equiv-L_{ \mathrm{SKY}}-2 \operatorname{Ric}_{\alpha \beta} \wedge{ }^{*} \operatorname{Ric}_{\alpha \beta}+\frac{1}{2} \operatorname{Ric}_{\alpha}{ }^{\alpha} \wedge{ }^{*} \operatorname{Ric}_{\beta}{ }^{\beta} \end{aligned}` | $\begin{aligned} d C_{\mathrm{RR}(\star)} & :=\frac{1}{2} d\left(\Gamma_{\alpha \beta} \wedge R^{\alpha \beta( \star)}-\frac{1}{3} \Gamma_{\alpha}{ }^{\beta( \star)} \wedge \Gamma_{\beta}{ }^{\gamma} \wedge \Gamma_{\gamma}{ }^{\alpha}\right) \\ & \equiv-L_{ \mathrm{SKY}}-2 \operatorname{Ric}_{\alpha \beta} \wedge{ }^{*} \operatorname{Ric}_{\alpha \beta}+\frac{1}{2} \operatorname{Ric}_{\alpha}{ }^{\alpha} \wedge{ }^{*} \operatorname{Ric}_{\beta}{ }^{\beta} \end{aligned}$ | $\begin{aligned} d C_{\mathrm{RR}(\star)} & :=\frac{1}{2} d\left(\Gamma_{\alpha \beta} \wedge R^{\alpha \beta( \star)}-\frac{1}{3} \Gamma_{\alpha}{ }^{\beta( \star)} \wedge \Gamma_{\beta}{ }^{\gamma} \wedge \Gamma_{\gamma}{ }^{\alpha}\right) \\ & \equiv-L_{ \mathrm{SKY}}-2 \operatorname{Ric}_{\alpha \beta} \wedge{ }^{*} \operatorname{Ric}_{\alpha \beta}+\frac{1}{2} \operatorname{Ric}_{\alpha}{ }^{\alpha} \wedge{ }^{*} \operatorname{Ric}_{\beta}{ }^{\beta} \end{aligned}$ |
| mielke-geometrodynamics_EQ0674 (10.3.31) | 220 | 0.890 | `\check{\mathscr{E}}_{\alpha}=-\frac{\theta_{\mathrm{T}} \theta_{\mathrm{TL}}}{2 \ell^{2}}\left(\frac{1}{\theta_{ \mathrm{TL}}} d \vartheta_{\alpha}-\frac{4 \ell}{\theta_{ \mathrm{T}} \theta_{\mathrm{L}}} \check{\mathscr{J}}_{ \alpha}^{\star}\right),` | $\check{\mathscr{E}}_{\alpha}=-\frac{\theta_{\mathrm{T}} \theta_{\mathrm{TL}}}{2 \ell^{2}}\left(\frac{1}{\theta_{ \mathrm{TL}}} d \vartheta_{\alpha}-\frac{4 \ell}{\theta_{ \mathrm{T}} \theta_{\mathrm{L}}} \check{\mathscr{J}}_{ \alpha}^{\star}\right),$ | $\check{\mathscr{E}}_{\alpha}=-\frac{\theta_{\mathrm{T}} \theta_{\mathrm{TL}}}{2 \ell^{2}}\left(\frac{1}{\theta_{ \mathrm{TL}}} d \vartheta_{\alpha}-\frac{4 \ell}{\theta_{ \mathrm{T}} \theta_{\mathrm{L}}} \check{\mathscr{J}}_{ \alpha}^{\star}\right),$ |

| Identifier | Page | Conf. | LaTeX source | Rendered | Image |
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| mielke-geometrodynamics_EQ0531 (7.7.51) | 169 | 0.890 | \left.\left.R:=e_{\beta}\right\rfloor e_{\alpha}\right \rfloor R^{\alpha \beta}, \quad{ }^{*} R^{\alpha \beta} \wedge \vartheta_{\alpha} \wedge \vartheta_{\beta} \equiv R^{\alpha \beta} \wedge \eta_{\alpha \beta} \equiv-R \eta, | $R:=e_{\beta}\rfloor e_{\alpha}\rfloor R^{\alpha\beta}, \quad {}^{*}R^{\alpha\beta}\wedge\vartheta_{\alpha}\wedge\vartheta_{\beta}\equiv R^{\alpha\beta}\wedge\eta_{\alpha\beta}\equiv -R\eta,$ | $R:=e_{\beta}\rfloor e_{\alpha}\rfloor R^{\alpha\beta}, \quad {}^{*}R^{\alpha\beta}\wedge\vartheta_{\alpha}\wedge\vartheta_{\beta}\equiv R^{\alpha\beta}\wedge\eta_{\alpha\beta}\equiv -R\eta\,,$ |
| mielke-geometrodynamics_EQ0540 (8.3.1) | 176 | 0.891 | \begin{aligned} (d \oplus s) \gamma+[\widetilde{\Gamma}, \gamma] & =\widetilde{\Theta} \\ (d \oplus s) \widetilde{ \Theta}+[\widetilde{\Gamma}, \widetilde{\Theta}] & \equiv \left[\widetilde{\Omega}^{g}, \gamma\right] \end{aligned} | $\begin{aligned} (d\oplus s)\gamma+[\widetilde{\Gamma},\gamma] &= \widetilde{\Theta} \\ (d\oplus s)\widetilde{\Theta}+[\widetilde{\Gamma},\widetilde{\Theta}] &\equiv \left[\widetilde{\Omega}^{g},\gamma\right] \end{aligned}$ | $\begin{aligned} (d\oplus s)\gamma+[\widetilde{\Gamma},\gamma] &= \widetilde{\Theta}\,, \\ (d\oplus s)\widetilde{\Theta}+[\widetilde{\Gamma},\widetilde{\Theta}] &\equiv [\widetilde{\Omega}^{g},\gamma]\,, \end{aligned}$ |
| mielke-geometrodynamics_EQ0925 (14.1.5) | 303 | 0.892 | \begin{aligned} & D^{*} \Omega=\tau_{e}, \\ & D \Omega \equiv 0, \\ & \frac{1}{2} *\left(\vartheta \wedge^{*} \Omega^{g}\right)=\ell^{* 2}\left(\Sigma_{\mathrm{YM}}+ \Sigma_{\mathrm{mat}}\right), \end{aligned} | $\begin{aligned} & D^{*}\Omega=\tau_{e}, \\ & D\Omega\equiv 0, \\ & \frac{1}{2}*(\vartheta\wedge{}^{*}\Omega^{g})=\ell^{*2}(\Sigma_{\mathrm{YM}}+\Sigma_{\mathrm{mat}}), \end{aligned}$ | $\begin{aligned} & D^{*}\Omega=\tau_{e}, \\ & D\Omega\equiv 0, \\ & \frac{1}{2}*(\vartheta\wedge{}^{*}\Omega^{g})=\ell^{*2}(\Sigma_{\mathrm{YM}}+\Sigma_{\mathrm{mat}}), \end{aligned}$ |
| mielke-geometrodynamics_EQ0867 (13.2.3) | 283 | 0.893 | B \cong d A, \quad d B \cong d F \equiv 0, | $B\cong dA, \quad dB\cong dF\equiv 0,$ | $B\cong dA, \quad dB\cong dF\equiv 0,$ |
| mielke-geometrodynamics_EQ0609 (9.2.11) | 201 | 0.894 | \begin{aligned} & \left(1+\zeta^{2}\right) \int_{M^{4}} L_{\mathrm{SKY}}-(-1)^{s} \zeta(4 \pi)^{2} \cdot \chi \left(M^{4}\right) \\ & =\frac{1}{4} \int_{M^{4}}\left( \Omega^{g}-\zeta^{*} \Omega^{g(\star)}\right) \wedge^{*} \left(\Omega^{g}-\zeta^{*} \Omega^{g(\star)}\right) \geq 0, \end{aligned} | $\begin{aligned} & (1+\zeta^{2})\int_{M^{4}} L_{\mathrm{SKY}}-(-1)^{s}\zeta(4\pi)^{2}\cdot\chi\left(M^{4}\right) \\ & =\frac{1}{4}\int_{M^{4}}\left(\Omega^{g}-\zeta^{*}\Omega^{g(\star)}\right)\wedge^{*}\left(\Omega^{g}-\zeta^{*}\Omega^{g(\star)}\right)\geq 0, \end{aligned}$ | $\begin{aligned} & (1+\zeta^{2})\int_{M^{4}} L_{\mathrm{SKY}}-(-1)^{s}\zeta(4\pi)^{2}\cdot\chi(M^{4}) \\ & =\frac{1}{4}\int_{M^{4}}(\Omega^{g}-\zeta^{*}\Omega^{g(\star)})\wedge{}^{*}(\Omega^{g}-\zeta^{*}\Omega^{g(\star)})\geq 0, \end{aligned}$ |
| mielke-geometrodynamics_EQ0959 (14.1.41) | 309 | 0.894 | \oint d \delta=2 \pi b_{1}=2 \pi v | $\oint d\delta=2\pi b_{1}=2\pi v$ | $\oint d\delta=2\pi b_{1}=2\pi v$ |
| mielke-geometrodynamics_EQ0299 (4.5.10) | 102 | 0.896 | \begin{aligned} & \delta g_{\alpha \beta}=2 \varepsilon_{(\alpha}{ }^{\gamma} g_{\beta) \gamma}, \quad \delta \vartheta^{\alpha}=-\vartheta^{\beta} \varepsilon_{\beta}{ }^{\alpha}, \\ & \delta \Gamma_{\alpha}{ }^{\beta}=D \varepsilon_{\alpha}{ }^{\beta}, \quad \delta \Psi=-\varepsilon_{\alpha}{ }^{\beta} I^{\alpha}{ }_{\beta} \Psi . \end{aligned} | $\begin{aligned} & \delta g_{\alpha\beta}=2\varepsilon_{(\alpha}{}^{\gamma}g_{\beta)\gamma}, \quad \delta\vartheta^{\alpha}=-\vartheta^{\beta}\varepsilon_{\beta}{}^{\alpha}, \\ & \delta\Gamma_{\alpha}{}^{\beta}=D\varepsilon_{\alpha}{}^{\beta}, \quad \delta\Psi=-\varepsilon_{\alpha}{}^{\beta}I^{\alpha}{}_{\beta}\Psi. \end{aligned}$ | $\begin{aligned} & \delta g_{\alpha\beta}=2\varepsilon_{(\alpha}{}^{\gamma}g_{\beta)\gamma}, \quad \delta\vartheta^{\alpha}=-\vartheta^{\beta}\varepsilon_{\beta}{}^{\alpha}, \\ & \delta\Gamma_{\alpha}{}^{\beta}=D\varepsilon_{\alpha}{}^{\beta}, \quad \delta\Psi=-\varepsilon_{\alpha}{}^{\beta}I^{\alpha}{}_{\beta}\Psi. \end{aligned}$ |
| mielke-geometrodynamics_EQ0236 (4.3.1) | 90 | 0.896 | \begin{aligned} (\Delta s)^{2} & =-c^{2}(\Delta t)^{2}+( \Delta x)^{2}+(\Delta y)^{2}+(\Delta z)^{2} \\ & =g_{i j} \Delta x^{i} \Delta x^{j} . \end{aligned} | $\begin{aligned} (\Delta s)^{2} &= -c^{2}(\Delta t)^{2}+(\Delta x)^{2}+(\Delta y)^{2}+(\Delta z)^{2} \\ &= g_{ij}\Delta x^{i}\Delta x^{j}. \end{aligned}$ | $\begin{aligned} (\Delta s)^{2} &= -c^{2}(\Delta t)^{2}+(\Delta x)^{2}+(\Delta y)^{2}+(\Delta z)^{2} \\ &= g_{ij}\Delta x^{i}\Delta x^{j}. \end{aligned}$ |
| mielke-geometrodynamics_EQ1005 (14.3.18) | 323 | 0.896 | \begin{aligned} \not D^{2} & =\operatorname{Tr}\left( \frac{1}{2} \gamma \wedge \gamma \wedge{ }^{*}\{D, D\}+ \frac{1}{2} \gamma \wedge \gamma \wedge^{*} \widetilde{ \Omega}-\gamma \wedge \widetilde{\Theta} \wedge^{*} D \right) \\ & =\left(\square^{g}+\frac{1}{4} R\right) \eta-\vartheta \wedge \Theta \wedge^{*} D \end{aligned} | $\begin{aligned} \not{D}^{2} &= \operatorname{Tr}\left(\frac{1}{2}\gamma\wedge\gamma\wedge{}^{*}\{D,D\}+\frac{1}{2}\gamma\wedge\gamma\wedge{}^{*}\widetilde{\Omega}-\gamma\wedge\widetilde{\Theta}\wedge{}^{*}D\right) \\ &= \left(\square^{g}+\frac{1}{4}R\right)\eta-\vartheta\wedge\Theta\wedge{}^{*}D \end{aligned}$ | $\begin{aligned} \not{D}^{2} &= \operatorname{Tr}\left(\frac{1}{2}\gamma\wedge\gamma\wedge{}^{*}\{D,D\}+\frac{1}{2}\gamma\wedge\gamma\wedge{}^{*}\widetilde{\Omega}-\gamma\wedge\widetilde{\Theta}\wedge{}^{*}D\right) \\ &= (\square^{g}+\frac{1}{4}R)\eta-\vartheta\wedge\Theta\wedge{}^{*}D \end{aligned}$ |

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| mielke-geometrodynamics_EQ0230 (4.2.23) | 88 | 0.899 | `\stackrel{*}{\sigma} \Theta=\frac{1}{2} T_{\alpha \beta}^{. c} P_{c} \otimes \vartheta^{\alpha} \wedge \vartheta^{\beta}=\frac{1}{2} T_{i j}^{. c} P_{c} \otimes d x^{i} \wedge d x^{j},` | $\overset{*}{\sigma}\Theta=\frac{1}{2}T_{\alpha\beta}^{\cdot c}P_c\otimes\vartheta^\alpha\wedge\vartheta^\beta=\frac{1}{2}T_{ij}^{\cdot c}P_c\otimes dx^i\wedge dx^j,$ | $\overset{*}{\sigma}\Theta=\frac{1}{2}T_{\alpha\beta}^{\cdot c}P_c\otimes\vartheta^\alpha\wedge\vartheta^\beta=\frac{1}{2}T_{ij}^{\cdot c}P_c\otimes dx^i\wedge dx^j,$ |
| mielke-geometrodynamics_EQ0723 (10.10.3) | 230 | 0.900 | `\begin{aligned} \delta_{\text {susy }} \vartheta^{\alpha} & \left.=i \bar{\sigma} \Psi \gamma^{\alpha}, \quad \delta_{\text {susy }} \Gamma_{\alpha}^{\star}=i \bar{ \sigma} \gamma_{\alpha}^{*} D \Psi+i c \bar{\sigma}\left( \gamma_{\alpha} \Psi+e_{\alpha}\right\rfloor^{*} \Psi \right) \\ \delta_{\text {susy }} \Psi & =2 D \sigma+c \gamma \sigma, \end{aligned}` | $\begin{aligned}\delta_{\text{susy}}\vartheta^\alpha&=i\bar\sigma\,\Psi\gamma^\alpha,\quad \delta_{\text{susy}}\Gamma^\star_\alpha=i\bar\sigma\,\gamma^*_\alpha D\Psi+ic\bar\sigma\left(\gamma_\alpha\Psi+e_\alpha\rfloor^*\Psi\right)\\ \delta_{\text{susy}}\Psi&=2D\sigma+c\gamma\sigma,\end{aligned}$ | $\begin{aligned}\delta_{\text{susy}}\vartheta^\alpha&=i\bar\sigma\,\Psi\gamma^\alpha,\quad \delta_{\text{susy}}\Gamma^\star_\alpha=i\bar\sigma\,\gamma^*_\alpha D\Psi+ic\bar\sigma\left(\gamma_\alpha\Psi+e_\alpha\rfloor^*\Psi\right),\\ \delta_{\text{susy}}\Psi&=2D\sigma+c\gamma\sigma, \qquad (1\end{aligned}$ |
| mielke-geometrodynamics_EQ0216 (4.2.8) | 86 | 0.902 | `\widetilde{\widetilde{\omega}} \rightarrow^{A^{-1}} \widetilde{\widetilde{\omega}}=A^{-1} \widetilde{ \widetilde{\omega}} A-A^{-1} d A, \quad A \in \mathscr{A}_{p} .` | $\widetilde{\widetilde\omega}\to^{A^{-1}}\widetilde{\widetilde\omega}=A^{-1}\widetilde{\widetilde\omega}A-A^{-1}dA,\quad A\in\mathscr{A}_p.$ | $\widetilde{\widetilde\omega}\to^{A^{-1}}\widetilde{\widetilde\omega}=A^{-1}\widetilde{\widetilde\omega}A-A^{-1}dA,\quad A\in\mathscr{A}_p.$ |
| mielke-geometrodynamics_EQ1042 (15.1.19) | 340 | 0.902 | `\Gamma_{\mu \alpha \beta}:\left(2^{+}\right) \oplus 2\left(1^{-}\right) \oplus\left(0^{+}\right) \oplus \left(2^{-}\right) \oplus 2\left(1^{+}\right) \oplus \left(0^{-}\right),` | $\Gamma_{\mu\alpha\beta}:\left(2^+\right)\oplus 2\left(1^-\right)\oplus\left(0^+\right)\oplus\left(2^-\right)\oplus 2\left(1^+\right)\oplus\left(0^-\right),$ | $\Gamma_{\mu\alpha\beta}:(2^+)\oplus 2(1^-)\oplus(0^+)\oplus(2^-)\oplus 2(1^+)\oplus(0^-),$ |
| mielke-geometrodynamics_EQ0481 (7.5.2) | 157 | 0.903 | `\square^{c} g_{i j}=\square^{c}\left(\Omega^{2} o_{i j}^{ \text {Mink }}\right)=\Omega^{6} \square^{c} o_{i j}^{ \text {Mink }}=0` | $\square^c g_{ij}=\square^c\left(\Omega^2 o_{ij}^{\text{Mink}}\right)=\Omega^6\square^c o_{ij}^{\text{Mink}}=0$ | $\square^c g_{ij}=\square^c(\Omega^2 o_{ij}^{\text{Mink}})=\Omega^6\square^c o_{ij}^{\text{Mink}}=0$ |
| mielke-geometrodynamics_EQ0117 (3.3.18) | 59 | 0.905 | `L_{\mathrm{Max}}:=-\frac{1}{2} F \wedge^{*} F=\frac{1}{2} \left(\mathbf{E}^{2}-\mathbf{B}^{2}\right) \eta,` | $L_{\text{Max}}:=-\frac{1}{2}F\wedge^* F=\frac{1}{2}\left(\mathbf{E}^2-\mathbf{B}^2\right)\eta,$ | $L_{\text{Max}}:=-\frac{1}{2}F\wedge^* F=\frac{1}{2}(\mathbf{E}^2-\mathbf{B}^2)\eta,$ |
| mielke-geometrodynamics_EQ1110 (B.22) | 371 | 0.905 | `\square \alpha=0,` | $\square\alpha=0,$ | $\square\alpha=0,$ |
| mielke-geometrodynamics_EQ0831 (12.1.3) | 270 | 0.907 | `\tilde{j}_{5}:=j_{5}+\left(1 / 96 \pi^{2}\right) A \wedge d A` | $\tilde j_5:=j_5+\left(1/96\pi^2\right)A\wedge dA$ | $\tilde j_5:=j_5+(1/96\pi^2)A\wedge dA$ |
| mielke-geometrodynamics_EQ0409 (6.4.29) | 136 | 0.907 | `T^{A}=\frac{1}{f}\left(d f \wedge \vartheta^{A}-2 \eta^{0 A \beta \gamma} \vartheta_{\beta} \wedge \vartheta_{ \gamma}\right)=-\frac{2}{f} \eta^{A}{ }_{\mu \nu} \vartheta^{\mu} \wedge \vartheta^{\nu}= \pm{ }^{*} T^{A}, \quad T^{\hat{0}}=0,` | $T^A=\frac{1}{f}\left(df\wedge\vartheta^A-2\eta^{0A\beta\gamma}\vartheta_\beta\wedge\vartheta_\gamma\right)=-\frac{2}{f}\eta^A{}_{\mu\nu}\vartheta^\mu\wedge\vartheta^\nu=\pm{}^*T^A,\quad T^{\hat0}=0,$ | $T^A=\frac{1}{f}\left(df\wedge\vartheta^A-2\eta^{0A\beta\gamma}\vartheta_\beta\wedge\vartheta_\gamma\right)=-\frac{2}{f}\eta^A{}_{\mu\nu}\vartheta^\mu\wedge\vartheta^\nu=\pm{}^*T^A,\quad T^{\hat0}=0,$ |
| mielke-geometrodynamics_EQ0657 (10.3.14) | 217 | 0.907 | `\left.E_{\alpha}=e_{\alpha}\right\rfloor L(\star)-\frac{2 \gamma}{\delta \ell^{2}} T_{\alpha},` | $E_\alpha=e_\alpha\rfloor L(\star)-\frac{2\gamma}{\delta\ell^2}T_\alpha,$ | $E_\alpha=e_\alpha\rfloor L(\star)-\frac{2\gamma}{\delta\ell^2}T_\alpha,$ |
| mielke-geometrodynamics_EQ0396 (6.4.11) | 132 | 0.909 | `\begin{aligned} \mathscr{H} \cong & n^{\alpha} \frac{ \delta L}{\delta \vartheta^{\alpha}}+\Gamma_{ \perp}^{\alpha \beta} \frac{\delta L}{\frac{\delta \Gamma^{\alpha \beta}}{\partial L}} \\ & \left.-\underline{d}[(n\rfloor \Psi) \wedge \frac{\partial L}{\partial D \Psi}+n^{\alpha} \frac{\partial L}{\partial T^{\alpha}}+\Gamma_{\perp}^{\alpha \beta} \frac{\partial L}{\partial R^{\alpha \beta}}\right] . \end{aligned}` | $\begin{aligned}\mathscr{H}\cong & n^\alpha\frac{\delta L}{\delta\vartheta^\alpha}+\Gamma_\perp^{\alpha\beta}\frac{\delta L}{\frac{\delta\Gamma^{\alpha\beta}}{\partial L}}\\ & -\underline{d}\Big[(n\rfloor\Psi)\wedge\frac{\partial L}{\partial D\Psi}+n^\alpha\frac{\partial L}{\partial T^\alpha}+\Gamma_\perp^{\alpha\beta}\frac{\partial L}{\partial R^{\alpha\beta}}\Big].\end{aligned}$ | $\begin{aligned}\mathscr{H}\cong & n^\alpha\frac{\delta L}{\delta\vartheta^\alpha}+\Gamma_\perp^{\alpha\beta}\frac{\delta L}{\delta\Gamma^{\alpha\beta}}\\ & -\underline{d}\Big[(n\rfloor\Psi)\wedge\frac{\partial L}{\partial D\Psi}+n^\alpha\frac{\partial L}{\partial T^\alpha}+\Gamma_\perp^{\alpha\beta}\frac{\partial L}{\partial R^{\alpha\beta}}\Big].\end{aligned}$ |
| mielke-geometrodynamics_EQ0641 (10.2.12) | 213 | 0.909 | `d s^{2}=-\left(1-\Lambda_{\text {eff }} r^{2}\right) d t^{2}+\left(1-\Lambda_{\text {eff }} r^{2}\right)^{-1} d r^{2}+r^{2} d \phi^{2}` | $ds^2=-\left(1-\Lambda_{\text{eff}}\,r^2\right)dt^2+\left(1-\Lambda_{\text{eff}}\,r^2\right)^{-1}dr^2+r^2d\phi^2$ | $ds^2=-(1-\Lambda_{\text{eff}}\,r^2)dt^2+(1-\Lambda_{\text{eff}}\,r^2)^{-1}dr^2+r^2\,d\phi^2$ |

| Identifier | Page | Conf. | LaTeX source | Rendered | Image |
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| mielke-geometrodynamics_EQ0263 (4.3.28) | 94 | 0.912 | `\Gamma_{i j}^{. . k}=e_{b}^{. \kappa} \Gamma_{i \alpha}^{. . b} E_{. j}^{\alpha}+e_{\beta}^{. \kappa} \partial_{i} E_{. j}^{\beta}` | $\Gamma_{ij}^{..k} = e_b^{.\kappa}\Gamma_{i\alpha}^{..b}E_{.j}^{\alpha} + e_\beta^{.\kappa}\partial_i E_{.j}^{\beta}$ | $\Gamma_{ij}^{..\kappa} = e_b^{.\kappa}\Gamma_{i\alpha}^{..b}E_{.j}^{\alpha} + e_\beta^{.\kappa}\partial_i E_{.j}^{\beta}$ |
| mielke-geometrodynamics_EQ0364 (6.2.16) | 126 | 0.912 | `D D \lambda_{\alpha \beta}=-2 R_{[\alpha \mid}{ }^{ \gamma} \wedge \lambda_{\gamma \mid \beta]}=0` | $DD\lambda_{\alpha\beta} = -2R_{[\alpha\|}{}^{\gamma} \wedge \lambda_{\gamma\|\beta]} = 0$ | $DD\lambda_{\alpha\beta} = -2R_{[\alpha\|}{}^{\gamma} \wedge \lambda_{\gamma\|\beta]} = 0$ |
| mielke-geometrodynamics_EQ0840 (12.2.8) | 272 | 0.916 | `\begin{aligned} \tau_{\alpha \beta} & :=\frac{\partial L_{\mathrm{D}}}{\partial \Gamma^{\alpha \beta}}= \frac{1}{8} \bar{\psi}\left({ }^{*} \gamma \sigma_{ \alpha \beta}+\sigma_{\alpha \beta}{ }^{*} \gamma\right) \psi \\ & =\frac{1}{4} \eta_{\alpha \beta \gamma \delta} \bar{\psi} \gamma^{\delta} \gamma_{5} \psi \eta^{\gamma}= \tau_{\alpha \beta \gamma} \eta^{\gamma}=\vartheta_{[ \alpha} \wedge \mu_{\beta]} \end{aligned}` | $\begin{aligned} \tau_{\alpha\beta} &:= \frac{\partial L_{\mathrm{D}}}{\partial \Gamma^{\alpha\beta}} = \frac{1}{8}\bar{\psi}\left({}^{*}\gamma\sigma_{\alpha\beta} + \sigma_{\alpha\beta}{}^{*}\gamma\right)\psi \\ &= \frac{1}{4}\eta_{\alpha\beta\gamma\delta}\bar{\psi}\gamma^{\delta}\gamma_5\psi\eta^{\gamma} = \tau_{\alpha\beta\gamma}\eta^{\gamma} = \vartheta_{[\alpha} \wedge \mu_{\beta]} \end{aligned}$ | $\begin{aligned} \tau_{\alpha\beta} &:= \frac{\partial L_{\mathrm{D}}}{\partial \Gamma^{\alpha\beta}} = \frac{1}{8}\overline{\psi}\left({}^{*}\gamma\sigma_{\alpha\beta} + \sigma_{\alpha\beta}{}^{*}\gamma\right)\psi \\ &= \frac{1}{4}\eta_{\alpha\beta\gamma\delta}\overline{\psi}\gamma^{\delta}\gamma_5\psi\eta^{\gamma} = \tau_{\alpha\beta\gamma}\eta^{\gamma} = \vartheta_{[\alpha} \wedge \mu_{\beta]} . \end{aligned}$ |
| mielke-geometrodynamics_EQ0232 (4.2.25) | 88 | 0.917 | `\Theta \rightarrow{ }^{A^{-1}} \Theta=G^{-1} \Theta,` | $\Theta \rightarrow {}^{A^{-1}}\Theta = G^{-1}\Theta,$ | $\Theta \rightarrow {}^{A^{-1}}\Theta = G^{-1}\Theta,$ |
| mielke-geometrodynamics_EQ0577 (8.6.15) | 185 | 0.920 | `-E_{\alpha}=\frac{\theta_{\mathrm{T}}^{*}}{2} R^{\{ \} \beta \gamma} \wedge \eta_{\alpha \beta \gamma}-\theta_{ \mathrm{T}}^{*} \Lambda_{\mathrm{eff}} \eta_{\alpha}= \ell^{2} \overparen{\Sigma}_{\alpha} .` | $-E_\alpha = \frac{\theta_{\mathrm{T}}^*}{2} R^{\{\}\beta\gamma} \wedge \eta_{\alpha\beta\gamma} - \theta_{\mathrm{T}}^* \Lambda_{\mathrm{eff}}\eta_\alpha = \ell^2 \widehat{\Sigma}_\alpha .$ | $-E_\alpha = \frac{\theta_{\mathrm{T}}^*}{2} R^{\{\}\beta\gamma} \wedge \eta_{\alpha\beta\gamma} - \theta_{\mathrm{T}}^* \Lambda_{\mathrm{eff}}\eta_\alpha = \ell^2 \widehat{\Sigma}_\alpha .$ |
| mielke-geometrodynamics_EQ1031 (15.1.8) | 337 | 0.920 | `\begin{aligned} & \frac{1}{2} *\left(\vartheta^{f} \wedge^{*} \Omega^{f}\right)-a \ell^{2} \vartheta^{f} \wedge^{*}\left\{2 L_{f g}-\frac{1}{2 b \ell^{* 2}}\left( \Omega^{g} \wedge \vartheta^{g} \wedge \vartheta^{g}+2 \Lambda \eta\right)\right\} \\ & =\ell^{2} *\left\{ \Sigma_{\mathrm{m}}(\text { hadrons })+\frac{\mathrm{a}}{ \mathrm{~b}}{ }^{*}\left(\vartheta^{\mathrm{g}} \wedge^{*} \Sigma_{\mathrm{m}}(\text { leptons }) \right) \wedge \vartheta^{\mathrm{f}}\right\} \end{aligned}` | $\begin{aligned} &\frac{1}{2} *\left(\vartheta^{f} \wedge^{*} \Omega^{f}\right)-a \ell^{2} \vartheta^{f} \wedge^{*}\left\{2 L_{f g}-\frac{1}{2 b \ell^{* 2}}\left( \Omega^{g} \wedge \vartheta^{g} \wedge \vartheta^{g}+2 \Lambda \eta\right)\right\} \\ &=\ell^{2} *\left\{ \Sigma_{\mathrm{m}}(\text { hadrons })+\frac{\mathrm{a}}{ \mathrm{~b}}{ }^{*}\left(\vartheta^{\mathrm{g}} \wedge^{*} \Sigma_{\mathrm{m}}(\text { leptons }) \right) \wedge \vartheta^{\mathrm{f}}\right\} \end{aligned}$ | $\begin{aligned} &\frac{1}{2} *\left(\vartheta^{f} \wedge^{*} \Omega^{f}\right)-a \ell^{2} \vartheta^{f} \wedge^{*}\left\{2 L_{f g}-\frac{1}{2 b \ell^{* 2}}\left( \Omega^{g} \wedge \vartheta^{g} \wedge \vartheta^{g}+2 \Lambda \eta\right)\right\} \\ &=\ell^{2} *\left\{ \Sigma_{\mathrm{m}}(\text { hadrons })+\frac{\mathrm{a}}{ \mathrm{~b}}{ }^{*}\left(\vartheta^{\mathrm{g}} \wedge^{*} \Sigma_{\mathrm{m}}(\text { leptons }) \right) \wedge \vartheta^{\mathrm{f}}\right\} \end{aligned}$ |
| mielke-geometrodynamics_EQ0473 (7.4.1) | 156 | 0.921 | `\begin{aligned} & \int \mathscr{D} \Gamma \exp \left[ \int L_{\mathrm{SKY}}^{(\star)} / \hbar\right] \\ = & \int \mathscr{D} \Gamma \exp \left[-\int\left(R_{\alpha \beta}+{ }^{*} R_{\alpha \beta}^{(\star)}\right) \wedge{ }^{*}\left(R^{\alpha \beta}+{ }^{*} R^{\alpha \beta(\star)}\right) / 4 \hbar\right] \end{aligned}` | $\begin{aligned} &\int \mathscr{D}\Gamma \exp\left[\int L_{\mathrm{SKY}}^{(\star)}/\hbar\right] \\ &= \int \mathscr{D}\Gamma \exp\left[-\int\left(R_{\alpha\beta} + {}^*R_{\alpha\beta}^{(\star)}\right) \wedge {}^*\left(R^{\alpha\beta} + {}^*R^{\alpha\beta(\star)}\right)/4\hbar\right] \end{aligned}$ | $\begin{aligned} &\int \mathscr{D}\Gamma \exp\left[\int L_{\mathrm{SKY}}^{(\star)}/\hbar\right] \\ &= \int \mathscr{D}\Gamma \exp\left[-\int\left(R_{\alpha\beta} + {}^*R_{\alpha\beta}^{(\star)}\right) \wedge {}^*\left(R^{\alpha\beta} + {}^*R^{\alpha\beta(\star)}\right)/4\hbar\right] \end{aligned}$ |
| mielke-geometrodynamics_EQ0343 (5.4.1) | 115 | 0.922 | `k \partial_{k} \Gamma_{k}=\frac{1}{2} \mathrm{~S} \operatorname{Tr}\left\{\left[\Gamma_{k}^{(2)}+R_{k} \right]^{-1}\left(k \partial_{k} R_{k}\right)\right\},` | $k\partial_k\Gamma_k = \frac{1}{2}\,\mathrm{S}\,\mathrm{Tr}\left\{\left[\Gamma_k^{(2)} + R_k\right]^{-1}(k\partial_k R_k)\right\},$ | $k\partial_k\Gamma_k = \frac{1}{2}\mathrm{STr}\left\{[\Gamma_k^{(2)} + R_k]^{-1}(k\partial_k R_k)\right\},$ |
| mielke-geometrodynamics_EQ0829 (12.1.1) | 269 | 0.922 | `\bar{\psi}(x) \gamma_{5}^{*} \gamma \psi(x+\varepsilon) \rightarrow \bar{\psi}(x) \gamma_{5}^{*} \gamma \psi(x+ \varepsilon) \mathbf{P} \exp \left\{i \int_{x}^{x+ \varepsilon} A\right\} .` | $\bar{\psi}(x)\gamma_5^*\gamma\psi(x+\varepsilon) \rightarrow \bar{\psi}(x)\gamma_5^*\gamma\psi(x+\varepsilon)\mathbf{P}\exp\left\{i\int_x^{x+\varepsilon} A\right\} .$ | $\overline{\psi}(x)\gamma_5{}^*\gamma\psi(x+\varepsilon) \rightarrow \overline{\psi}(x)\gamma_5{}^*\gamma\psi(x+\varepsilon)\mathbf{P}\exp\left\{i\int_x^{x+\varepsilon} A\right\} .$ |

| Identifier | Page | Conf. | LaTeX source | Rendered | Image |
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| mielke-geometrodynamics_EQ0736 (11.1.3) | 238 | 0.922 | `\gamma^{0}:=\left(\begin{array}{rr} \mathbb{1} & 0 \\ 0 & -\mathbb{1} \end{array}\right), \quad \gamma^{k}:= \left(\begin{array}{ll} 0 & \sigma^{k} \\ -\sigma^{k} & 0 \end{array}\right), \quad \sigma^{k}: \text { Pauli matrices. }` | $\gamma^0 := \begin{pmatrix} \mathbb{1} & 0 \\ 0 & -\mathbb{1} \end{pmatrix}, \quad \gamma^k := \begin{pmatrix} 0 & \sigma^k \\ -\sigma^k & 0 \end{pmatrix}, \quad \sigma^k : \text{ Pauli matrices.}$ | $\gamma^0 := \begin{pmatrix} \mathbb{1} & 0 \\ 0 & -\mathbb{1} \end{pmatrix}, \quad \gamma^k := \begin{pmatrix} 0 & \sigma^k \\ -\sigma^k & 0 \end{pmatrix}, \quad \sigma^k : \text{Pauli matrices.}$ |
| mielke-geometrodynamics_EQ0661 (10.3.18) | 217 | 0.923 | `\square H-(-1)^{s}{ }^{*} D^{*} D H=d t+\frac{\gamma}{ \delta \ell^{2}} d \mathscr{A}+\frac{1}{\delta \ell} d h,` | $\square H-(-1)^{s}{}^{*} D^{*} D H=d t+\frac{\gamma}{\delta \ell^{2}} d \mathscr{A}+\frac{1}{\delta \ell} d h,$ | $\square H-(-1)^{s}{}^{*} D^{*} D H=d t+\frac{\gamma}{\delta \ell^{2}} d \mathscr{A}+\frac{1}{\delta \ell} d h,$ |
| mielke-geometrodynamics_EQ0685 (10.3.43) | 222 | 0.923 | `C_{\alpha}-E_{\alpha}=\Sigma_{\alpha}-D^{\{ \}} \mu_{ \alpha},` | $C_{\alpha}-E_{\alpha}=\Sigma_{\alpha}-D^{\{\}} \mu_{\alpha},$ | $C_{\alpha}-E_{\alpha}=\Sigma_{\alpha}-D^{\{\}} \mu_{\alpha},$ |
| mielke-geometrodynamics_EQ0702 (10.6.1) | 225 | 0.924 | `L_{A}=\frac{1}{2}\left(F \wedge{ }^{*} F+m_{\text {photon }} F \wedge A\right) .` | $L_{A}=\frac{1}{2}\left(F \wedge{}^{*} F+m_{\text {photon }} F \wedge A\right) .$ | $L_{A}=\frac{1}{2}\left(F \wedge{}^{*} F+m_{\text {photon }} F \wedge A\right) .$ |
| mielke-geometrodynamics_EQ0221 (4.2.14) | 87 | 0.924 | `\Omega^{\mathrm{T}} \rightarrow{ }^{A^{-1}} \Omega^{ \mathrm{T}}=G^{-1}\left(\Omega^{\mathrm{T}}-D D T \right)=G^{-1} \Omega^{\mathrm{T}}-G^{-1} \Omega^{ \mathrm{L}} \otimes T .` | $\Omega^{\mathrm{T}} \rightarrow{}^{A^{-1}} \Omega^{\mathrm{T}}=G^{-1}\left(\Omega^{\mathrm{T}}-D D T \right)=G^{-1} \Omega^{\mathrm{T}}-G^{-1} \Omega^{ \mathrm{L}} \otimes T .$ | $\Omega^{\mathrm{T}} \rightarrow{}^{A^{-1}} \Omega^{\mathrm{T}}=G^{-1}\left(\Omega^{\mathrm{T}}-D D T \right)=G^{-1} \Omega^{\mathrm{T}}-G^{-1} \Omega^{ \mathrm{L}} \otimes T .$ |
| mielke-geometrodynamics_EQ0443 (6.8.14) | 143 | 0.924 | `H_{\alpha}=-\frac{1}{\ell^{2}} *\left(\sum_{i=1}^{3} a_{i}{ }^{(i)} T_{\alpha}\right),` | $H_{\alpha}=-\frac{1}{\ell^{2}} *\left(\sum_{i=1}^{3} a_{i}{}^{(i)} T_{\alpha}\right),$ | $H_{\alpha}=-\frac{1}{\ell^{2}} *\left(\sum_{i=1}^{3} a_{i}{}^{(i)} T_{\alpha}\right),$ |
| mielke-geometrodynamics_EQ0192 (4.1.2) | 81 | 0.924 | `a:=\left[\begin{array}{c\|c} g & \mathrm{a} \\ \hline 0 & 1 \end{array}\right]=\left[\begin{array}{c\|c} \mathbb{1}_{n} & \mathrm{a} \\ \hline 0 & 1 \end{array} \right]\left[\begin{array}{c\|c} g & 0 \\ \hline 0 & 1 \end{array}\right]=a^{\mathrm{T}} \cdot a^{\mathrm{L}} \in A(n, \mathbb{R}) .` | $a:=\left[\begin{array}{c\|c} g & \mathrm{a} \\ \hline 0 & 1 \end{array}\right]=\left[\begin{array}{c\|c} \mathbb{1}_{n} & \mathrm{a} \\ \hline 0 & 1 \end{array} \right]\left[\begin{array}{c\|c} g & 0 \\ \hline 0 & 1 \end{array}\right]=a^{\mathrm{T}} \cdot a^{\mathrm{L}} \in A(n, \mathbb{R}) .$ | $a:=\left[\begin{array}{c\|c} g & \mathrm{a} \\ \hline 0 & 1 \end{array}\right]=\left[\begin{array}{c\|c} \mathbb{1}_{n} & \mathrm{a} \\ \hline 0 & 1 \end{array} \right]\left[\begin{array}{c\|c} g & 0 \\ \hline 0 & 1 \end{array}\right]=a^{\mathrm{T}} \cdot a^{\mathrm{L}} \in A(n, \mathbb{R}) .$ |
| mielke-geometrodynamics_EQ0857 (12.4.4) | 278 | 0.925 | `\left.\mathbf{匕}_{n} \mathscr{G}^{A} \cong n\right \rfloor\left(D \underline{\tau}^{A}\right),` | *(not rendered)* | $\left.\mathbf{匕}_{n} \mathscr{G}^{A} \cong n\right \rfloor\left(D \underline{\tau}^{A}\right),$ |
| mielke-geometrodynamics_EQ1025 (15.1.1) | 336 | 0.926 | `\begin{aligned} L_{f-g}= & \frac{1}{\ell^{2}} L_{\mathrm{W}}(f)+\frac{1}{\ell^{* 2}} L_{ \mathrm{W}}(g)+L_{f g}+\frac{\Lambda}{\ell^{* 2}} \vartheta^{g} \wedge \vartheta^{g} \wedge \vartheta^{g} \wedge \vartheta^{g} \\ & +L_{\mathrm{m}} \text { (hadrons, f) }+\mathrm{L}_{\mathrm{m}} \text { (leptons, g). } \end{aligned}` | $\begin{aligned} L_{f-g}= & \frac{1}{\ell^{2}} L_{\mathrm{W}}(f)+\frac{1}{\ell^{* 2}} L_{ \mathrm{W}}(g)+L_{f g}+\frac{\Lambda}{\ell^{* 2}} \vartheta^{g} \wedge \vartheta^{g} \wedge \vartheta^{g} \wedge \vartheta^{g} \\ & +L_{\mathrm{m}} \text { (hadrons, f) }+\mathrm{L}_{\mathrm{m}} \text { (leptons, g). } \end{aligned}$ | $\begin{aligned} L_{f-g}= & \frac{1}{\ell^{2}} L_{\mathrm{W}}(f)+\frac{1}{\ell^{* 2}} L_{ \mathrm{W}}(g)+L_{f g}+\frac{\Lambda}{\ell^{* 2}} \vartheta^{g} \wedge \vartheta^{g} \wedge \vartheta^{g} \wedge \vartheta^{g} \\ & +L_{\mathrm{m}} \text { (hadrons, f) }+\mathrm{L}_{\mathrm{m}} \text { (leptons, g). } \end{aligned}$ |
| mielke-geometrodynamics_EQ0109 (3.3.10) | 58 | 0.927 | `L_{\mathrm{Max}}=-\frac{1}{2} F \wedge{ }^{*} F,` | $L_{\mathrm{Max}}=-\frac{1}{2} F \wedge{}^{*} F,$ | $L_{\mathrm{Max}}=-\frac{1}{2} F \wedge{}^{*} F,$ |
| mielke-geometrodynamics_EQ0587 (9.1.5) | 194 | 0.928 | `d r^{*}:=e^{(\lambda-v) / 2)} d r .` | $dr^{*}:=e^{(\lambda-v)/2)} dr.$ | $dr^{*}:=e^{(\lambda-v)/2)} dr.$ |
| mielke-geometrodynamics_EQ1101 (B.13) | 370 | 0.929 | `*(\underbrace{\vartheta \wedge \cdots \wedge \vartheta}_{ \mathrm{p} \text { products }})=\frac{p!}{(n-p!)} \underbrace{\vartheta \wedge \cdots \wedge \vartheta}_{ \mathrm{n}-\mathrm{p} \text { products }}(\star),` | $*(\underbrace{\vartheta \wedge \cdots \wedge \vartheta}_{\text{p products}})=\frac{p!}{(n-p!)} \underbrace{\vartheta \wedge \cdots \wedge \vartheta}_{\text{n−p products}}(\star),$ | $*(\underbrace{\vartheta \wedge \cdots \wedge \vartheta}_{\text{p products}})=\frac{p!}{(n-p!)} \underbrace{\vartheta \wedge \cdots \wedge \vartheta}_{\text{n−p products}}(\star),$ |
| mielke-geometrodynamics_EQ0413 (6.5.1) | 137 | 0.929 | `W(A, \gamma)=\operatorname{Tr} \mathbf{P} \exp \oint A=\operatorname{Tr} \mathbf{P} \exp \oint d s \dot{ \gamma}^{i}(s) A_{i}^{J}(\gamma(s)) \lambda_{J},` | $W(A, \gamma)=\operatorname{Tr} \mathbf{P} \exp \oint A=\operatorname{Tr} \mathbf{P} \exp \oint d s \dot{\gamma}^{i}(s) A_{i}^{J}(\gamma(s)) \lambda_{J},$ | $W(A, \gamma)=\operatorname{Tr} \mathbf{P} \exp \oint A=\operatorname{Tr} \mathbf{P} \exp \oint d s \dot{\gamma}^{i}(s) A_{i}^{J}(\gamma(s)) \lambda_{J},$ |

| Identifier | Page | Conf. | LaTeX source | Rendered | Image |
|---|---|---|---|---|---|
| mielke-geometrodynamics_EQ0465 (7.3.4) | 153 | 0.929 | `\left.\left.E_{\alpha}:=\partial L_{\mathrm{SKY}} / \partial \vartheta^{\alpha}=\frac{1}{2}\left(e_{\alpha} \right\rfloor R^{\mu \nu} \wedge{ }^{*} R_{\mu \nu}-R^{ \mu \nu} \wedge e_{\alpha}\right\rfloor{ }^{*} R_{\mu \nu}\right)=0` | $E_\alpha := \partial L_{\mathrm{SKY}}/\partial\vartheta^\alpha = \frac{1}{2}\left(e_\alpha\rfloor R^{\mu\nu}\wedge {}^*R_{\mu\nu} - R^{\mu\nu}\wedge e_\alpha\rfloor {}^*R_{\mu\nu}\right) = 0$ | $E_\alpha := \partial L_{\mathrm{SKY}}/\partial\vartheta^\alpha = \frac{1}{2}\left(e_\alpha\rfloor R^{\mu\nu}\wedge {}^*R_{\mu\nu} - R^{\mu\nu}\wedge e_\alpha\rfloor {}^*R_{\mu\nu}\right) = 0$ |
| mielke-geometrodynamics_EQ1034 (15.1.11) | 338 | 0.930 | `\Lambda_{\text {eff. }}^{f}=\frac{2 a}{\kappa b} \Lambda-2 a \ell^{2 *} L_{f g}` | $\Lambda^f_{\text{eff.}} = \frac{2a}{\kappa b}\Lambda - 2a\ell^{2*}L_{fg}$ | $\Lambda^f_{\text{eff.}} = \frac{2a}{\kappa b}\Lambda - 2a\,\ell^{2*}L_{fg}$ |
| mielke-geometrodynamics_EQ0512 (7.7.30) | 165 | 0.931 | `\begin{aligned} \Omega^{g}:=d \Gamma+\Gamma \wedge \Gamma & =\frac{i}{4}\left(d \Gamma_{\alpha}{ }^{\beta}-\Gamma_{ \alpha}{ }^{\gamma} \wedge \Gamma_{\gamma}{ }^{\beta} \right) \sigma^{\alpha}{ }_{\beta} \\ & =\frac{i}{4} R^{ \alpha \beta} \sigma_{\alpha \beta}=\frac{i}{8} R_{i j}{ }^{\alpha \beta} \sigma_{\alpha \beta} d x^{i} \wedge d x^{j}, \end{aligned}` | $\begin{aligned}\Omega^g := d\Gamma + \Gamma\wedge\Gamma &= \frac{i}{4}\left(d\Gamma_\alpha{}^\beta - \Gamma_\alpha{}^\gamma\wedge\Gamma_\gamma{}^\beta\right)\sigma^\alpha{}_\beta \\ &= \frac{i}{4}R^{\alpha\beta}\sigma_{\alpha\beta} = \frac{i}{8}R_{ij}{}^{\alpha\beta}\sigma_{\alpha\beta}dx^i\wedge dx^j,\end{aligned}$ | $\begin{aligned}\Omega^g := d\Gamma + \Gamma\wedge\Gamma &= \frac{i}{4}(d\Gamma_\alpha{}^\beta - \Gamma_\alpha{}^\gamma\wedge\Gamma_\gamma{}^\beta)\,\sigma^\alpha{}_\beta \\ &= \frac{i}{4}R^{\alpha\beta}\,\sigma_{\alpha\beta} = \frac{i}{8}R_{ij}{}^{\alpha\beta}\,\sigma_{\alpha\beta}\,dx^i\wedge dx^j\,,\end{aligned}$ |
| mielke-geometrodynamics_EQ0854 (12.4.1) | 277 | 0.931 | `\stackrel{( \pm)}{V}_{\mathrm{EC}}:=V_{\mathrm{EC}} \pm i d C_{\mathrm{TT}}= \pm \frac{1}{2 \ell^{2}} \operatorname{Tr}\left\{\left(1 \mp \gamma_{5}\right) \Omega \wedge \sigma\right\}=-\frac{1}{2 \ell^{2}} \stackrel{( \pm)}{R}{ }^{\alpha \beta} \wedge \eta_{ \alpha \beta}+\frac{\Lambda}{\ell^{2}} \eta` | $\overset{(\pm)}{V}_{\mathrm{EC}} := V_{\mathrm{EC}} \pm i d C_{\mathrm{TT}} = \pm\frac{1}{2\ell^2}\operatorname{Tr}\left\{(1\mp\gamma_5)\,\Omega\wedge\sigma\right\} = -\frac{1}{2\ell^2}\overset{(\pm)}{R}{}^{\alpha\beta}\wedge\eta_{\alpha\beta} + \frac{\Lambda}{\ell^2}\eta$ | $\overset{(\pm)}{V}_{\mathrm{EC}} := V_{\mathrm{EC}} \pm i d C_{\mathrm{TT}} = \pm\frac{1}{2\ell^2}Tr\,\{(1\mp\gamma_5)\,\Omega\wedge\sigma\} = -\frac{1}{2\ell^2}\overset{(\pm)}{R}{}^{\alpha\beta}\wedge\eta_{\alpha\beta} + \frac{\Lambda}{\ell^2}\eta$ |
| mielke-geometrodynamics_EQ0530 (7.7.50) | 169 | 0.931 | `\left.{ }^{*} R_{\alpha \beta}^{(\star)} \equiv(-1)^{ \mathrm{sig}} R_{\alpha \beta}+e_{[\alpha}\right\rfloor G_{\beta]}+\frac{1}{4} R \eta_{\alpha \beta}+(-1)^{ \mathrm{sig}+1} D_{[\alpha} T_{\beta]}` | ${}^*R^{(\star)}_{\alpha\beta} \equiv (-1)^{\mathrm{sig}}R_{\alpha\beta} + e_{[\alpha}\rfloor G_{\beta]} + \frac{1}{4}R\eta_{\alpha\beta} + (-1)^{\mathrm{sig}+1}D_{[\alpha}T_{\beta]}$ | ${}^*R^{(\star)}_{\alpha\beta} \equiv (-1)^{\mathrm{sig}}R_{\alpha\beta} + e_{[\alpha}\rfloor G_{\beta]} + \frac{1}{4}R\eta_{\alpha\beta} + (-1)^{\mathrm{sig}+1}D_{[\alpha}T_{\beta]}$ |
| mielke-geometrodynamics_EQ0556 (8.4.10) | 180 | 0.933 | `R_{\alpha \beta}=\mp{ }^{*} R_{\alpha \beta}^{(\star)}` | $R_{\alpha\beta} = \mp {}^*R^{(\star)}_{\alpha\beta}$ | $R_{\alpha\beta} = \mp {}^*R^{(\star)}_{\alpha\beta}$ |
| mielke-geometrodynamics_EQ0547 (8.4.1) | 178 | 0.935 | `\begin{aligned} L_{\mathrm{Pontr}} & :=d C_{\mathrm{RR}}= \operatorname{Tr}\left\{\Omega^{g} \wedge \Omega^{g} \right\}=\frac{1}{2} R_{\alpha}{ }^{\beta} \wedge R_{ \beta}{ }^{\alpha} \\ & =\frac{1}{2} d\left(\Gamma_{ \alpha}{ }^{\beta} \wedge R_{\beta}{ }^{\alpha}- \frac{1}{3} \Gamma_{\alpha}{ }^{\beta} \wedge \Gamma_{ \beta}{ }^{\gamma} \wedge \Gamma_{\gamma}{ }^{\alpha} \right) \end{aligned}` | $\begin{aligned}L_{\mathrm{Pontr}} &:= dC_{\mathrm{RR}} = \operatorname{Tr}\{\Omega^g\wedge\Omega^g\} = \frac{1}{2}R_\alpha{}^\beta\wedge R_\beta{}^\alpha \\ &= \frac{1}{2}d\left(\Gamma_\alpha{}^\beta\wedge R_\beta{}^\alpha - \frac{1}{3}\Gamma_\alpha{}^\beta\wedge\Gamma_\beta{}^\gamma\wedge\Gamma_\gamma{}^\alpha\right)\,,\end{aligned}$ | $\begin{aligned}L_{\mathrm{Pontr}} &:= dC_{\mathrm{RR}} = \operatorname{Tr}\{\Omega^g\wedge\Omega^g\} = \frac{1}{2}R_\alpha{}^\beta\wedge R_\beta{}^\alpha \\ &= \frac{1}{2}d\left(\Gamma_\alpha{}^\beta\wedge R_\beta{}^\alpha - \frac{1}{3}\Gamma_\alpha{}^\beta\wedge\Gamma_\beta{}^\gamma\wedge\Gamma_\gamma{}^\alpha\right)\,,\end{aligned}$ |
| mielke-geometrodynamics_EQ0824 (11.4.38) | 259 | 0.935 | `\left.\left.r_{s} \equiv\langle \| \vec{x}\right\|^{2} \right\rangle_{\psi}^{1 / 2}:=\left(\frac{\int_{H^{3}}\| \vec{x}\|^{2} \bar{\psi}^{*} \gamma \psi}{\int_{H^{3}} \bar{\psi}^{*} \gamma \psi}\right)^{1 / 2} .` | $r_s \equiv \left\langle\|\vec{x}\|^2\right\rangle_\psi^{1/2} := \left(\frac{\int_{H^3}\|\vec{x}\|^2\bar{\psi}^*\gamma\psi}{\int_{H^3}\bar{\psi}^*\gamma\psi}\right)^{1/2}.$ | $r_s \equiv \langle\|\vec{x}\|^2\rangle_\psi^{1/2} := \left(\frac{\int_{H^3}\|\vec{x}\|^2\overline{\psi}^*\gamma\psi}{\int_{H^3}\overline{\psi}^*\gamma\psi}\right)^{1/2}.$ |
| mielke-geometrodynamics_EQ0288 (4.4.17) | 99 | 0.936 | `\left[\Omega^{g}, \Pi^{\mathrm{L}}\right]+ \mathrm{E}_{[]}=D \tau_{s}-\Sigma_{[]} .` | $\left[\Omega^g, \Pi^{\mathrm{L}}\right] + \mathrm{E}_{[]} = D\tau_s - \Sigma_{[]}.$ | $[\Omega^g, \Pi^{\mathrm{L}}] + \mathrm{E}_{[]} = D\tau_s - \Sigma_{[]}.$ |
| mielke-geometrodynamics_EQ0598 (9.1.16) | 196 | 0.936 | `f=-h=g=k=-\frac{\mu}{r^{2}} e^{-\nu / 2} .` | $f = -h = g = k = -\frac{\mu}{r^2}e^{-\nu/2}.$ | $f = -h = g = k = -\frac{\mu}{r^2}e^{-\nu/2}.$ |
| mielke-geometrodynamics_EQ0203 (4.1.17) | 83 | 0.937 | `\stackrel{*}{\sigma}^{*} \vartheta^{\beta}=E_{j}^{\beta} d x^{j}` | $\overset{*}{\sigma}{}^* \vartheta^\beta = E^\beta_j dx^j$ | $\overset{*}{\sigma}\vartheta^\beta = E^\beta_j dx^j$ |

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| mielke-geometrodynamics_EQ0987 (14.2.28) | 319 | 0.938 | `{ }^{(4)} R=-\frac{8}{3} R_{\circ}^{-2}, \quad{ }^{(7)} \stackrel{\circ}{R}=\frac{7}{3} R_{\circ}^{-2}` | ${}^{(4)}R=-\frac{8}{3}R_{\circ}^{-2}, \quad {}^{(7)}\overset{\circ}{R}=\frac{7}{3}R_{\circ}^{-2}$ | ${}^{(4)}R=-\frac{8}{3}R_{\circ}^{-2}, \quad {}^{(7)}\overset{\circ}{R}=\frac{7}{3}R_{\circ}^{-2}$ |
| mielke-geometrodynamics_EQ0946 (14.1.27) | 306 | 0.939 | `\left(\vartheta \wedge{ }^{*} \Omega^{g}\right) \wedge \left(\vartheta \wedge{ }^{*} \Omega^{g}\right)=\vartheta \wedge \vartheta \wedge{ }^{*}\left(\vartheta \wedge{ }^{*} \Omega^{g} \wedge{ }^{*}\left(\vartheta \wedge{ }^{*} \Omega^{g}\right)\right)` | $\left(\vartheta \wedge {}^{*}\Omega^{g}\right) \wedge \left(\vartheta \wedge {}^{*}\Omega^{g}\right)=\vartheta \wedge \vartheta \wedge {}^{*}\left(\vartheta \wedge {}^{*}\Omega^{g} \wedge {}^{*}\left(\vartheta \wedge {}^{*}\Omega^{g}\right)\right)$ | $\left(\vartheta \wedge {}^{*}\Omega^{g}\right) \wedge \left(\vartheta \wedge {}^{*}\Omega^{g}\right)=\vartheta \wedge \vartheta \wedge {}^{*}\left(\vartheta \wedge {}^{*}\Omega^{g} \wedge {}^{*}\left(\vartheta \wedge {}^{*}\Omega^{g}\right)\right)$ |
| mielke-geometrodynamics_EQ0837 (12.2.5) | 271 | 0.939 | `j=\bar{\psi}^{*} \gamma \psi=j^{\mu} \eta_{\mu}, \quad j_{5}:=\bar{\psi} \gamma_{5}{ }^{*} \gamma \psi= \frac{1}{3} \bar{\psi} \sigma \wedge \gamma \psi=j_{5}^{ \mu} \eta_{\mu} .` | $j=\bar{\psi}^{*}\gamma\psi=j^{\mu}\eta_{\mu}, \quad j_{5}:=\bar{\psi}\gamma_{5}{}^{*}\gamma\psi=\frac{1}{3}\bar{\psi}\sigma\wedge\gamma\psi=j_{5}^{\mu}\eta_{\mu}.$ | $j=\overline{\psi}\,{}^{*}\gamma\psi=j^{\mu}\,\eta_{\mu}\,, \qquad j_{5}:=\overline{\psi}\gamma_{5}\,{}^{*}\gamma\psi=\frac{1}{3}\overline{\psi}\sigma\wedge\gamma\psi=j_{5}^{\mu}\,\eta_{\mu}\,.$ |
| mielke-geometrodynamics_EQ0135 (3.4.6) | 63 | 0.940 | `\Pi^{\Omega}=\frac{2}{\alpha_{g}}\left(\frac{\partial L}{ \partial \mathscr{F}}{ }^{*} \Omega+\frac{\partial L}{ \partial^{*} \mathscr{F}} \Omega\right)` | $\Pi^{\Omega}=\frac{2}{\alpha_{g}}\left(\frac{\partial L}{\partial \mathscr{F}}{}^{*}\Omega+\frac{\partial L}{\partial^{*}\mathscr{F}}\Omega\right)$ | $\Pi^{\Omega}=\frac{2}{\alpha_{g}}\left(\frac{\partial L}{\partial \mathscr{F}}\,{}^{*}\Omega+\frac{\partial L}{\partial^{*}\mathscr{F}}\,\Omega\right)$ |
| mielke-geometrodynamics_EQ0772 (11.2.1) | 245 | 0.943 | `L_{\mathrm{D}}=\frac{i}{2}\left(\bar{\psi} \gamma \wedge^{*} D \psi+(\overline{D \psi}) \wedge^{*} \gamma \psi\right)-m \bar{\psi} \psi \eta .` | $L_{\mathrm{D}}=\frac{i}{2}\left(\bar{\psi}\gamma\wedge^{*}D\psi+(\overline{D\psi})\wedge^{*}\gamma\psi\right)-m\bar{\psi}\psi\eta.$ | $L_{\mathrm{D}}=\frac{i}{2}\left(\overline{\psi}\gamma\wedge{}^{*}D\psi+(\overline{D\psi})\wedge{}^{*}\gamma\psi\right)-m\overline{\psi}\psi\,\eta.$ |
| mielke-geometrodynamics_EQ0551 (8.4.5) | 179 | 0.945 | `\begin{aligned} L_{\mathrm{FP}}= & -\operatorname{Tr}\left\{\beta \wedge{ }^{*} \bar{\Omega}^{g}-\bar{\chi} \wedge^{*} D \Psi^{( \pm)}-\bar{\chi} \wedge^{*}\left[C, \stackrel{ \pm}{\Omega}^{g}\right]\right. \\ & +\bar{ \eta} D^{*} \Psi+\bar{\Phi} D^{*} D \Phi+\bar{\Phi}\left[ \Psi,{ }^{*} \Psi\right]+\mathbb{B} d^{*} \Gamma \\ & \left.-\bar{C} d^{*} \Psi+\bar{C} d^{*}(D C)+\frac{1}{2} \rho \beta \wedge^{*} \beta+\frac{1}{2} \mathbb{B} \wedge{ }^{*} \mathbb{B}\right\} . \end{aligned}` | $\begin{aligned} L_{\mathrm{FP}}= & -\operatorname{Tr}\left\{\beta \wedge {}^{*}\bar{\Omega}^{g}-\bar{\chi} \wedge^{*} D\Psi^{(\pm)}-\bar{\chi} \wedge^{*}\left[C, \overset{\pm}{\Omega}^{g}\right]\right. \\ & +\bar{\eta} D^{*}\Psi+\bar{\Phi} D^{*} D\Phi+\bar{\Phi}\left[\Psi,{}^{*}\Psi\right]+\mathbb{B} d^{*}\Gamma \\ & \left.-\bar{C} d^{*}\Psi+\bar{C} d^{*}(DC)+\frac{1}{2}\rho\beta \wedge^{*} \beta+\frac{1}{2}\mathbb{B} \wedge {}^{*}\mathbb{B}\right\} . \end{aligned}$ | $\begin{aligned} L_{\mathrm{FP}}= & -\operatorname{Tr}\left\{\beta \wedge {}^{*}\overset{\pm}{\Omega}^{g}-\overline{\chi} \wedge {}^{*}D\Psi^{(\pm)}-\overline{\chi} \wedge {}^{*}\left[C, \overset{\pm}{\Omega}^{g}\right]\right. \\ & +\overline{\eta} D\,{}^{*}\Psi+\overline{\Phi}\,D\,{}^{*}D\Phi+\overline{\Phi}\,[\Psi,{}^{*}\Psi]+\mathbb{B}\,d\,{}^{*}\Gamma \\ & \left.-\overline{C}\,d\,{}^{*}\Psi+\overline{C}\,d\,{}^{*}(DC)+\frac{1}{2}\rho\,\beta \wedge {}^{*}\beta+\frac{1}{2}\mathbb{B} \wedge {}^{*}\mathbb{B}\right\} . \end{aligned}$ |
| mielke-geometrodynamics_EQ1069 (16.2.8) | 356 | 0.945 | `V_{\text {eff }}^{\iota}\left(\rho^{*}\right)=\frac{1 \pm \rho^{2}}{\rho^{2}}\left[\iota(\iota+1)-\left(2-\frac{1}{ \beta}\right) \rho^{2}\right], \begin{aligned} & \kappa>0 \\ & (\kappa<0) . \end{aligned}` | $V_{\text{eff}}^{\iota}\left(\rho^{*}\right)=\frac{1 \pm \rho^{2}}{\rho^{2}}\left[\iota(\iota+1)-\left(2-\frac{1}{\beta}\right) \rho^{2}\right], \begin{aligned} & \kappa>0 \\ & (\kappa<0). \end{aligned}$ | $V_{\text{eff}}^{\iota}(\rho^{*})=\frac{1 \pm \rho^{2}}{\rho^{2}}\left[\iota(\iota+1)-\left(2-\frac{1}{\beta}\right) \rho^{2}\right], \begin{aligned} & \kappa>0 \\ & (\kappa<0). \end{aligned}$ |
| mielke-geometrodynamics_EQ0593 (9.1.11) | 195 | 0.945 | `R={ }^{*}\left(\Omega^{g} \wedge \vartheta \wedge \vartheta\right)=-\frac{6 \kappa \gamma}{\ell^{* 2}}=4 \Lambda_{\text {eff }} .` | $R={}^{*}\left(\Omega^{g} \wedge \vartheta \wedge \vartheta\right)=-\frac{6 \kappa \gamma}{\ell^{*2}}=4 \Lambda_{\text{eff}} .$ | $R={}^{*}\left(\Omega^{g} \wedge \vartheta \wedge \vartheta\right)=-\frac{6 \kappa \gamma}{\ell^{*2}}=4 \Lambda_{\text{eff}}.$ |
| mielke-geometrodynamics_EQ0851 (12.3.4) | 276 | 0.946 | `\begin{aligned} & \operatorname{Tr}\left(\gamma_{5} K_{2}\right)=-d^{*} \mathscr{A} \\ & \operatorname{Tr}\left(\gamma_{5} K_{4}\right)=\frac{1}{6}\left[ \operatorname{Tr}\left(R^{\{ \}} \wedge R^{\{ \}} \right)-\frac{1}{4} d \mathscr{A} \wedge d \mathscr{A}+d \mathscr{K}\right], \end{aligned}` | $\begin{aligned} & \operatorname{Tr}\left(\gamma_{5} K_{2}\right)=-d^{*} \mathscr{A} \\ & \operatorname{Tr}\left(\gamma_{5} K_{4}\right)=\frac{1}{6}\left[\operatorname{Tr}\left(R^{\{\}} \wedge R^{\{\}}\right)-\frac{1}{4} d \mathscr{A} \wedge d \mathscr{A}+d \mathscr{K}\right], \end{aligned}$ | $\begin{aligned} & Tr(\gamma_{5} K_{2})=-d^{*} \mathscr{A}\,, \\ & Tr(\gamma_{5} K_{4})=\frac{1}{6}\left[Tr\left(R^{\{\}} \wedge R^{\{\}}\right)-\frac{1}{4} d \mathscr{A} \wedge d \mathscr{A}+d \mathscr{K}\right], \end{aligned}$ |

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| mielke-geometrodynamics_EQ0815 (11.4.29) | 257 | 0.946 | `\begin{aligned} & H^{\prime} \simeq \frac{1+\omega}{\beta} F \\ & F^{\prime}+\frac{2}{\rho} F \simeq \frac{1-\omega}{\beta} H \end{aligned}` | $H' \simeq \frac{1+\omega}{\beta} F$<br>$F' + \frac{2}{\rho} F \simeq \frac{1-\omega}{\beta} H$ | $H' \simeq \frac{1+\omega}{\beta} F,$<br>$F' + \frac{2}{\rho} F \simeq \frac{1-\omega}{\beta} H.$ |
| mielke-geometrodynamics_EQ1021 (14.4.16) | 328 | 0.947 | `S_{\mathrm{A}}:=4 \pi r_{+}^{2}=16 \pi M_{\mathrm{ir}}^{2} \frac{\hbar^{2}}{M^{* 4} c^{2}},` | $S_{\mathrm{A}} := 4\pi r_{+}^{2} = 16\pi M_{\mathrm{ir}}^{2} \frac{\hbar^{2}}{M^{*4} c^{2}},$ | $S_{\mathrm{A}} := 4\pi r_{+}^{2} = 16\pi \ M_{\mathrm{ir}}^{2} \frac{\hbar^{2}}{M^{*4} c^{2}},$ |
| mielke-geometrodynamics_EQ0855 (12.4.2) | 277 | 0.947 | `\mathscr{H}_{\Lambda} \Psi(\underline{\stackrel{(1)}{\Gamma}})=0` | $\mathscr{H}_{\Lambda} \Psi(\underline{\overset{(1)}{\Gamma}}) = 0$ | $\mathscr{H}_{\Lambda} \Psi(\underline{\overset{(\pm)}{\Gamma}}) = 0$ |
| mielke-geometrodynamics_EQ0452 (7.2.5) | 151 | 0.948 | `C_{. . c d}^{a b}=R_{. . c d}^{a b}-2 R_{.[c}^{[a \cdot} \delta_{d]}^{b]}+\frac{R}{6} \delta_{[c}^{a} \delta_{d]}^{b} .` | $C_{..cd}^{ab} = R_{..cd}^{ab} - 2R_{.[c}^{[a\cdot} \delta_{d]}^{b]} + \frac{R}{6} \delta_{[c}^{a} \delta_{d]}^{b}.$ | $C_{..cd}^{ab} = R_{..cd}^{ab} - 2R_{.[c}^{[a\cdot} \delta_{d]}^{b]} + \frac{R}{6} \delta_{[c}^{a} \delta_{d]}^{b}.$ |
| mielke-geometrodynamics_EQ0061 (2.8.2) | 46 | 0.949 | `{ }^{*}\left(\gamma_{k}\right)=\frac{(-1)^{k}}{(2 \pi i)^{k} k!} \operatorname{Tr}(\Omega \wedge \cdots \wedge \Omega) .` | ${}^{*}(\gamma_k) = \frac{(-1)^k}{(2\pi i)^k k!} \operatorname{Tr}(\Omega \wedge \cdots \wedge \Omega).$ | $\overset{*}{\pi}(\gamma_k) = \frac{(-1)^k}{(2\pi i)^k k!} \operatorname{Tr}(\Omega \wedge \cdots \wedge \Omega).$ |
| mielke-geometrodynamics_EQ0756 (11.1.23) | 242 | 0.950 | `\begin{aligned} S(p) & =\exp \imath \theta_{\alpha \beta}(m) \Lambda^{-1}\left(L^{\alpha \beta}\right)=\exp \imath \theta_{\alpha \beta}(m) \sigma^{\alpha \beta} \\ & =\exp \left(-\frac{1}{4} \theta_{\alpha \beta}(m) \left[\gamma^{\alpha}, \gamma^{\beta}\right]\right) . \end{aligned}` | $S(p) = \exp \imath \theta_{\alpha\beta}(m) \Lambda^{-1}\left(L^{\alpha\beta}\right) = \exp \imath \theta_{\alpha\beta}(m) \sigma^{\alpha\beta}$<br>$= \exp\left(-\frac{1}{4}\theta_{\alpha\beta}(m)\left[\gamma^{\alpha}, \gamma^{\beta}\right]\right).$ | $S(p) = \exp \imath \ \theta_{\alpha\beta}(m) \Lambda^{-1}(L^{\alpha\beta}) = \exp \imath \ \theta_{\alpha\beta}(m) \sigma^{\alpha\beta}$<br>$= \exp\left(-\frac{1}{4}\theta_{\alpha\beta}(m)[\gamma^{\alpha}, \gamma^{\beta}]\right).$ |
| mielke-geometrodynamics_EQ0939 (14.1.20) | 305 | 0.950 | `\xi \wedge \xi=0 \quad(=2 \vec{E} \cdot \vec{B} \text { in 3-dimensional vector notation })` | $\xi \wedge \xi = 0 \quad (= 2\vec{E} \cdot \vec{B}$ in 3-dimensional vector notation ) | $\xi \wedge \xi = 0 \quad (= 2\ \vec{E} \cdot \vec{B}$ in 3-dimensional vector notation) |
| mielke-geometrodynamics_EQ0568 (8.6.5) | 183 | 0.950 | `L_{\theta}:=\theta_{\mathrm{T}} d C_{\mathrm{TT}}+ \theta_{\mathrm{T}}^{*} d C_{\mathrm{TT}^{*}}+\theta_{ \mathrm{L}} d C_{\mathrm{RR}}+\theta_{\mathrm{L}}^{ \star}(-1)^{\mathrm{sig}+1} d C_{\mathrm{RR}^{*}}=d C_{ \theta} .` | $L_{\theta} := \theta_{\mathrm{T}} dC_{\mathrm{TT}} + \theta_{\mathrm{T}}^{*} dC_{\mathrm{TT}^*} + \theta_{\mathrm{L}} dC_{\mathrm{RR}} + \theta_{\mathrm{L}}^{\star}(-1)^{\mathrm{sig}+1} dC_{\mathrm{RR}^*} = dC_{\theta}.$ | $L_{\theta} := \theta_{\mathrm{T}}\, dC_{\mathrm{TT}} + \theta_{\mathrm{T}}^{*}\, dC_{\mathrm{TT}^*} + \theta_{\mathrm{L}}\, dC_{\mathrm{RR}} + \theta_{\mathrm{L}}^{\star}(-1)^{\mathrm{sig}+1} dC_{\mathrm{RR}^*} = dC_{\theta}\ .$ |
| mielke-geometrodynamics_EQ0234 (4.2.27) | 88 | 0.950 | `\widetilde{\widetilde{D}} \widetilde{\widetilde{ \varphi}}=D \widetilde{\widetilde{\varphi}}=0` | $\widetilde{\widetilde{D}}\widetilde{\widetilde{\varphi}} = D\widetilde{\widetilde{\varphi}} = 0$ | $\widetilde{\widetilde{D}}\widetilde{\widetilde{\varphi}} = D\widetilde{\widetilde{\varphi}} = 0$ |
| mielke-geometrodynamics_EQ0302 (4.5.9) | 102 | 0.950 | `\begin{aligned} \widehat{D} \Sigma_{\alpha} & \left.\cong \left(e_{\alpha}\right\rfloor R_{\beta}^{\gamma}\right) \wedge \Delta^{\beta} \gamma \\ & \left.-\frac{1}{2}\left(e_{\alpha}\right\rfloor Q_{\beta \gamma}\right) \wedge \sigma^{\beta \gamma} \end{aligned}` | $\widehat{D}\Sigma_{\alpha} \cong \left.\left(e_{\alpha}\right\rfloor R_{\beta}^{\gamma}\right) \wedge \Delta^{\beta}\gamma$<br>$\left.-\frac{1}{2}\left(e_{\alpha}\right\rfloor Q_{\beta\gamma}\right) \wedge \sigma^{\beta\gamma}$ | $\widehat{D}\ \Sigma_{\alpha} \cong (e_{\alpha}\rfloor R_{\beta}{}^{\gamma}) \wedge \Delta^{\beta}{}_{\gamma}$<br>$-\frac{1}{2}(e_{\alpha}\rfloor Q_{\beta\gamma}) \wedge \sigma^{\beta\gamma}$ |
| mielke-geometrodynamics_EQ0151 (3.4.22) | 66 | 0.951 | `L_{\text {Mills }}\left(\mathscr{F},{ }^{*} \mathscr{F} \right)=\mathscr{F}\left[1-\left(1+\frac{1}{b^{2}} \mathscr{F}^{2}\right)^{-1}\right]` | $L_{\text{Mills}}\left(\mathscr{F}, {}^{*}\mathscr{F}\right) = \mathscr{F}\left[1 - \left(1 + \frac{1}{b^2}\mathscr{F}^2\right)^{-1}\right]$ | $L_{\text{Mills}}(\mathscr{F}, {}^{*}\mathscr{F}) = \mathscr{F}\left[1 - \left(1 + \frac{1}{b^2}\mathscr{F}^2\right)^{-1}\right]$ |
| mielke-geometrodynamics_EQ0560 (8.5.3) | 181 | 0.953 | `\stackrel{ \pm}{\Omega^{g}}=i \frac{\theta_{ \mathrm{T}}^{*}}{4 \ell^{2}} \sigma` | $\overset{\pm}{\Omega}{}^{g} = i\frac{\theta_{\mathrm{T}}^{*}}{4\ell^2}\sigma$ | $\overset{\pm}{\Omega}{}^{g} = i\frac{\theta_{\mathrm{T}}^{*}}{4\ell^2}\sigma$ |
| mielke-geometrodynamics_EQ1106 (B.18) | 370 | 0.953 | `\delta \alpha^{(p)}:=(-1)^{p n+n+1+s *} d^{*} \alpha^{(p)} .` | $\delta\alpha^{(p)} := (-1)^{pn+n+1+s*} d^{*}\alpha^{(p)}.$ | $\delta\alpha^{(p)} := (-1)^{pn+n+1+s\ *} d^{*}\alpha^{(p)}.$ |

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| mielke-geometrodynamics_EQ0786 (11.3.5) | 248 | 0.954 | `\begin{aligned} L_{\mathrm{NL}} & =-3 \ell^{* 2} \tau_{s} \wedge^{*} \tau_{s}=3 \ell^{* 2} \bar{\psi}^{*} \gamma \psi \wedge^{*}\left(\bar{\psi}^{*} \gamma \psi\right) \\ & =3 \ell^{* 2} \bar{\psi} \gamma^{n+1} \gamma \psi \wedge^{*}\left(\bar{\psi} \gamma^{n+1} \gamma \psi \right) . \end{aligned}` | $L_{\mathrm{NL}} = -3\ell^{*2}\tau_s \wedge^* \tau_s = 3\ell^{*2}\bar{\psi}^*\gamma\psi \wedge^* \left(\bar{\psi}^*\gamma\psi\right)$ <br> $= 3\ell^{*2}\bar{\psi}\gamma^{n+1}\gamma\psi \wedge^* \left(\bar{\psi}\gamma^{n+1}\gamma\psi\right).$ | $L_{\mathrm{NL}} = -3\ell^{*2}\tau_s \wedge {}^*\tau_s = 3\ell^{*2}\overline{\psi}^*\gamma\psi \wedge {}^*(\overline{\psi}^*\gamma\psi)$ <br> $= 3\ell^{*2}\overline{\psi}\gamma^{n+1}\gamma\psi \wedge {}^*(\overline{\psi}\gamma^{n+1}\gamma\psi).$ |
| mielke-geometrodynamics_EQ0727 (10.10.7) | 231 | 0.955 | `\begin{aligned} i \gamma^{\alpha} \Psi \wedge \frac{ \delta L}{\delta \vartheta^{\alpha}}+ & c \gamma \wedge \frac{\delta L}{\delta \bar{\Psi}}-2 D \frac{\delta L}{\delta \bar{\Psi}} \\ \cong & i \gamma^{\alpha} \Psi \wedge\left(\frac{\theta_{\mathrm{TL}}}{\ell} R_{ \alpha}^{\star}+\frac{\theta_{\mathrm{T}}}{\ell^{2}} T_{ \alpha}+\Sigma_{\alpha}\right) \\ & +c \gamma \wedge \left(\frac{i}{2} D \Psi+\frac{i}{4} m \gamma \wedge \Psi\right)-D\left(i D \Psi+\frac{i}{2} m \gamma \wedge \Psi\right) \\ = & i \gamma^{\alpha} \Psi \wedge\left(\frac{\theta_{\mathrm{TL}}}{\ell} R_{\alpha}^{\star}+\frac{\theta_{\mathrm{T}}}{\ell^{2}} T_{\alpha}\right)+\gamma^{\alpha} \Psi \wedge\left(\frac{1}{4} m \bar{ \Psi} \gamma_{\alpha} \Psi\right) \\ & +c \gamma \wedge \left(\frac{i}{2} D \Psi+\frac{i}{4} m \gamma \wedge \Psi\right)-i R_{\alpha}^{\star} \gamma^{\alpha} \Psi-\frac{i}{2} m T_{\alpha} \gamma^{\alpha} \Psi \\ & +\frac{i}{2} m \gamma \wedge D \Psi . \end{aligned}` | $i\gamma^\alpha\Psi \wedge \frac{\delta L}{\delta\vartheta^\alpha}+c\gamma\wedge\frac{\delta L}{\delta\bar{\Psi}}-2D\frac{\delta L}{\delta\bar{\Psi}}$ <br> $\cong i\gamma^\alpha\Psi\wedge\left(\frac{\theta_{\mathrm{TL}}}{\ell}R^\star_\alpha+\frac{\theta_{\mathrm{T}}}{\ell^2}T_\alpha+\Sigma_\alpha\right)$ <br> $+c\gamma\wedge\left(\frac{i}{2}D\Psi+\frac{i}{4}m\gamma\wedge\Psi\right)-D\left(iD\Psi+\frac{i}{2}m\gamma\wedge\Psi\right)$ <br> $= i\gamma^\alpha\Psi\wedge\left(\frac{\theta_{\mathrm{TL}}}{\ell}R^\star_\alpha+\frac{\theta_{\mathrm{T}}}{\ell^2}T_\alpha\right)+\gamma^\alpha\Psi\wedge\left(\frac{1}{4}m\bar{\Psi}\gamma_\alpha\Psi\right)$ <br> $+c\gamma\wedge\left(\frac{i}{2}D\Psi+\frac{i}{4}m\gamma\wedge\Psi\right)-iR^\star_\alpha\gamma^\alpha\Psi-\frac{i}{2}mT_\alpha\gamma^\alpha\Psi$ <br> $+\frac{i}{2}m\gamma\wedge D\Psi.$ | $i\gamma^\alpha\Psi \wedge \frac{\delta L}{\delta\vartheta^\alpha}+c\gamma\wedge\frac{\delta L}{\delta\overline{\Psi}}-2D\frac{\delta L}{\delta\overline{\Psi}}$ <br> $\cong i\gamma^\alpha\Psi\wedge\left(\frac{\theta_{\mathrm{TL}}}{\ell}R^\star_\alpha+\frac{\theta_{\mathrm{T}}}{\ell^2}T_\alpha+\Sigma_\alpha\right)$ <br> $+c\gamma\wedge\left(\frac{i}{2}D\Psi+\frac{i}{4}m\gamma\wedge\Psi\right)-D\left(iD\Psi+\frac{i}{2}m\gamma\wedge\Psi\right)$ <br> $= i\gamma^\alpha\Psi\wedge\left(\frac{\theta_{\mathrm{TL}}}{\ell}R^\star_\alpha+\frac{\theta_{\mathrm{T}}}{\ell^2}T_\alpha\right)+\gamma^\alpha\Psi\wedge\left(\frac{1}{4}m\overline{\Psi\gamma_\alpha}\Psi\right)$ <br> $+c\gamma\wedge\left(\frac{i}{2}D\Psi+\frac{i}{4}m\gamma\wedge\Psi\right)-iR^\star_\alpha\gamma^\alpha\Psi-\frac{i}{2}mT_\alpha\gamma^\alpha\Psi$ <br> $+\frac{i}{2}m\gamma\wedge D\Psi.$ (10. |
| mielke-geometrodynamics_EQ0768 (11.1.35) | 244 | 0.956 | `\bar{\psi} \longrightarrow{ }^{S^{-1}} \bar{\psi}=\bar{ \psi} S,` | $\bar{\psi} \longrightarrow^{S^{-1}} \bar{\psi} = \bar{\psi}S,$ | $\overline{\psi} \longrightarrow^{S^{-1}} \overline{\psi} = \overline{\psi}S,$ |
| mielke-geometrodynamics_EQ0973 (14.2.14) | 315 | 0.956 | `\begin{aligned} \hat{\Theta} & :=\hat{D} \hat{\vartheta}= \hat{d} \hat{\vartheta}-[\hat{\omega}, \hat{\vartheta}] \\ & =\left[\begin{array}{l\|l} \Theta-\hat{\ell} \omega \wedge \alpha^{\mathrm{T}} & \hat{\ell}\left(d \omega-\omega^{g} \wedge \omega-\omega \wedge \stackrel{\circ}{ \omega}\right)+\vartheta \wedge \alpha+\alpha \wedge \stackrel{\circ}{\vartheta} \\ \hline-\alpha^{\mathrm{T}} \wedge \vartheta-\vartheta \wedge \alpha^{\mathrm{T}} & \stackrel{\circ}{\Theta}-\hat{\ell} \alpha^{\mathrm{T}} \wedge \omega \end{array}\right] . \end{aligned}` | $\hat{\Theta} := \hat{D}\hat{\vartheta} = \hat{d}\hat{\vartheta} - [\hat{\omega}, \hat{\vartheta}]$ <br> $= \left[\begin{array}{c\|c} \Theta - \hat{\ell}\,\omega\wedge\alpha^{\mathrm{T}} & \hat{\ell}\left(d\omega - \omega^g\wedge\omega - \omega\wedge\overset{\circ}{\omega}\right) + \vartheta\wedge\alpha + \alpha\wedge\overset{\circ}{\vartheta} \\ \hline -\alpha^{\mathrm{T}}\wedge\vartheta - \vartheta\wedge\alpha^{\mathrm{T}} & \overset{\circ}{\Theta} - \hat{\ell}\alpha^{\mathrm{T}}\wedge\omega \end{array}\right].$ | $\hat{\Theta} := \hat{D}\hat{\vartheta} = \hat{d}\hat{\vartheta} - [\hat{\omega}, \hat{\vartheta}]$ <br> $= \left[\begin{array}{c\|c} \Theta - \hat{\ell}\,\omega\wedge\alpha^{\mathrm{T}} & \hat{\ell}(d\omega - \omega^g\wedge\omega - \omega\wedge\overset{\circ}{\omega}) + \vartheta\wedge\alpha + \alpha\wedge\overset{\circ}{\vartheta} \\ \hline -\alpha^{\mathrm{T}}\wedge\vartheta - \overset{\circ}{\vartheta}\wedge\alpha^{\mathrm{T}} & \overset{\circ}{\Theta} - \hat{\ell}\,\alpha^{\mathrm{T}}\wedge\omega \end{array}\right].$ |
| mielke-geometrodynamics_EQ0761 (11.1.28) | 243 | 0.957 | `\frac{1}{N} \operatorname{Tr}\left(\gamma \otimes_{s} \gamma\right)=d s^{2}=g_{i j}(m) d x^{i} \otimes_{s} d x^{j} .` | $\frac{1}{N}\operatorname{Tr}\left(\gamma\otimes_s\gamma\right) = ds^2 = g_{ij}(m)dx^i\otimes_s dx^j.$ | $\frac{1}{N}\mathrm{Tr}(\gamma\otimes_s\gamma) = ds^2 = g_{ij}(m)dx^i\otimes_s dx^j.$ |

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| mielke-geometrodynamics_EQ0486 (7.7.2) | 160 | 0.957 | `\begin{aligned} \vartheta^{\alpha} & \left.\rightarrow \widetilde{\vartheta}^{\alpha}:=\vartheta^{\alpha}+ \ell^{2} e_{\beta}\right\rfloor^{*} H^{\alpha \beta}, \\ \Gamma_{\alpha}{ }^{\beta} & \left.\rightarrow \widetilde{\Gamma}_{\alpha}{ }^{\beta}:=\Gamma_{\alpha}{ }^{\beta}+\ell^{2} e_{\alpha}\right\rfloor^{*} H^{\beta} . \end{aligned}` | $\vartheta^{\alpha} \rightarrow \widetilde{\vartheta}^{\alpha} := \vartheta^{\alpha} + \ell^{2} e_{\beta} \rfloor^{*} H^{\alpha\beta},$ <br> $\Gamma_{\alpha}{}^{\beta} \rightarrow \widetilde{\Gamma}_{\alpha}{}^{\beta} := \Gamma_{\alpha}{}^{\beta} + \ell^{2} e_{\alpha} \rfloor^{*} H^{\beta}.$ | $\vartheta^{\alpha} \rightarrow \widetilde{\vartheta}^{\alpha} := \vartheta^{\alpha} + \ell^{2} e_{\beta} \rfloor^{*} H^{\alpha\beta},$ <br> $\Gamma_{\alpha}{}^{\beta} \rightarrow \widetilde{\Gamma}_{\alpha}{}^{\beta} := \Gamma_{\alpha}{}^{\beta} + \ell^{2} e_{\alpha} \rfloor^{*} H^{\beta}.$ |
| mielke-geometrodynamics_EQ1104 (B.16) | 370 | 0.957 | `\begin{aligned} \left\langle\alpha^{(p)}, \beta^{(p)} \right\rangle & :=\alpha^{(p)} \wedge^{*} \beta^{(p)}= \beta^{(p)} \wedge^{*} \alpha^{(p)} \\ & =(-1)^{s *} \left(\alpha^{(p)} \wedge^{*} \beta^{(p)}\right) \eta \\ & =\frac{(-1)^{s}}{p!} A^{\alpha_{1} \cdots \alpha_{p}} B_{\alpha_{1} \cdots \alpha_{p}} d \mu(M) \in C^{\infty} \left(\wedge^{n} T^{*}(M)\right) \end{aligned}` | $\left\langle \alpha^{(p)}, \beta^{(p)} \right\rangle := \alpha^{(p)} \wedge^{*} \beta^{(p)} = \beta^{(p)} \wedge^{*} \alpha^{(p)}$ <br> $= (-1)^{s *} \left(\alpha^{(p)} \wedge^{*} \beta^{(p)}\right) \eta$ <br> $= \frac{(-1)^{s}}{p!} A^{\alpha_1 \cdots \alpha_p} B_{\alpha_1 \cdots \alpha_p} d\mu(M) \in C^{\infty} \left(\wedge^{n} T^{*}(M)\right)$ | $\langle \alpha^{(p)}, \beta^{(p)} \rangle := \alpha^{(p)} \wedge^{*} \beta^{(p)} = \beta^{(p)} \wedge^{*} \alpha^{(p)}$ <br> $= (-1)^{s *} (\alpha^{(p)} \wedge^{*} \beta^{(p)}) \eta$ <br> $= \frac{(-1)^{s}}{p!} A^{\alpha_1 \cdots \alpha_p} B_{\alpha_1 \cdots \alpha_p} d\mu(M) \in C^{\infty}(\wedge^{n} T^{*}(M))$ |
| mielke-geometrodynamics_EQ0537 (8.2.4) | 176 | 0.958 | `\begin{array}{ll} s \bar{C}=\mathbb{B}, & s \mathbb{B}=0, \\ s \bar{\chi}=\beta, & s \beta=0, \\ s \bar{\Phi}=\bar{ \eta}, & s \bar{\eta}=0 . \end{array}` | $s\bar{C} = \mathbb{B}, \quad s\mathbb{B} = 0,$ <br> $s\bar{\chi} = \beta, \quad s\beta = 0,$ <br> $s\bar{\Phi} = \bar{\eta}, \quad s\bar{\eta} = 0.$ | $s\overline{C} = \mathbb{B}, \quad s\mathbb{B} = 0,$ <br> $s\overline{\chi} = \beta, \quad s\beta = 0,$ <br> $s\overline{\Phi} = \bar{\eta}, \quad s\bar{\eta} = 0.$ |
| mielke-geometrodynamics_EQ0269 (4.3.34) | 95 | 0.958 | `R_{i j}:=R_{\alpha i j}^{\cdots \alpha}` | $R_{ij} := R_{\alpha ij}^{\cdots\alpha}$ | $R_{ij} := R_{\alpha ij}^{\cdots\alpha}$ |
| mielke-geometrodynamics_EQ0394 (6.4.9) | 132 | 0.958 | `\left.\mathscr{H} \cong n^{\alpha} \underline{\Sigma}_{ \alpha}+\Gamma_{\perp}^{\alpha \beta} \rho\left(I_{\alpha \beta}\right) \underline{\Psi} \wedge \frac{\partial L}{ \partial D \Psi}-\underline{d}[(n\rfloor \Psi) \wedge \frac{\partial L}{\partial D \Psi}\right] .` | $\left.\mathscr{H} \cong n^{\alpha} \underline{\Sigma}_{\alpha} + \Gamma_{\perp}^{\alpha\beta} \rho(I_{\alpha\beta}) \underline{\Psi} \wedge \frac{\partial L}{\partial D\Psi} - \underline{d}[(n\rfloor\Psi) \wedge \frac{\partial L}{\partial D\Psi}\right].$ | $\mathscr{H} \cong n^{\alpha} \underline{\Sigma}_{\alpha} + \Gamma_{\perp}^{\alpha\beta} \rho(I_{\alpha\beta}) \underline{\Psi} \wedge \frac{\partial L}{\partial D\Psi} - \underline{d}\left[(n\rfloor\Psi) \wedge \frac{\partial L}{\partial D\Psi}\right].$ |
| mielke-geometrodynamics_EQ0406 (6.4.26) | 135 | 0.959 | `\stackrel{( \pm)( \pm)}{\underline{D}}^{B} \underline{T}^{B}=0` | $\overset{(\pm)(\pm)}{\underline{D}}{}^{B} \underline{T}^{B} = 0$ | $\overset{(\pm)(\pm)}{\underline{D}}{}^{B} \underline{T}^{B} = 0$ |
| mielke-geometrodynamics_EQ0458 (7.2.10) | 152 | 0.959 | `\mathfrak{s o}(4) \approx \mathfrak{s o}(3) \times \mathfrak{s o}(3) \approx \mathfrak{s u}(2) \times \mathfrak{s u}(2) .` | $\mathfrak{so}(4) \approx \mathfrak{so}(3) \times \mathfrak{so}(3) \approx \mathfrak{su}(2) \times \mathfrak{su}(2).$ | $\mathfrak{so}(4) \approx \mathfrak{so}(3) \times \mathfrak{so}(3) \approx \mathfrak{su}(2) \times \mathfrak{su}(2).$ |
| mielke-geometrodynamics_EQ0954 (14.1.36) | 308 | 0.959 | `\begin{aligned} & \left.(-1)^{z} \operatorname{Tr}_{ \{ }{ }^{*} \xi \wedge \vartheta \wedge \xi-\xi \wedge \vartheta \wedge{ }^{*} \xi\right\} \wedge d \delta \\ & \left.=\operatorname{Tr}_{\{ }{ }^{*} \xi \wedge \vartheta \wedge D^{*} \xi+\xi \wedge \vartheta \wedge D \xi\right\} \\ & \left.=-\frac{1}{2} D \operatorname{Tr}_{\{ }{ }^{*} \xi \wedge \vartheta \wedge{ }^{*} \xi-\xi \wedge \vartheta \wedge \xi\right\} . \end{aligned}` | $(-1)^{z} \operatorname{Tr}_{\{} {}^{*}\xi \wedge \vartheta \wedge \xi - \xi \wedge \vartheta \wedge {}^{*}\xi\} \wedge d\delta$ <br> $= \operatorname{Tr}_{\{} {}^{*}\xi \wedge \vartheta \wedge D^{*}\xi + \xi \wedge \vartheta \wedge D\xi\}$ <br> $= -\frac{1}{2} D \operatorname{Tr}_{\{} {}^{*}\xi \wedge \vartheta \wedge {}^{*}\xi - \xi \wedge \vartheta \wedge \xi\}.$ | $(-1)^{z} \operatorname{Tr}\{{}^{*}\xi \wedge \vartheta \wedge \xi - \xi \wedge \vartheta \wedge {}^{*}\xi\} \wedge d\delta$ <br> $= \operatorname{Tr}\{{}^{*}\xi \wedge \vartheta \wedge D{}^{*}\xi + \xi \wedge \vartheta \wedge D\xi\}$ <br> $= -\frac{1}{2} D \operatorname{Tr}\{{}^{*}\xi \wedge \vartheta \wedge {}^{*}\xi - \xi \wedge \vartheta \wedge \xi\}.$ |

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| mielke-geometrodynamics_EQ0330 (5.3.7) | 112 | 0.960 | G:=G_{\alpha} \gamma^{\alpha}:=\frac{1}{2} R^{\mu \nu} \wedge \eta_{\mu \nu \lambda} \gamma^{\lambda}=-i \gamma_{5}\left(\Omega^{g} \wedge \gamma+\gamma \wedge \Omega^{g}\right)=i\left[\gamma, \gamma_{5} \Omega^{g} \right] . | $G:=G_{\alpha} \gamma^{\alpha}:=\frac{1}{2} R^{\mu \nu} \wedge \eta_{\mu \nu \lambda} \gamma^{\lambda}=-i \gamma_{5}\left(\Omega^{g} \wedge \gamma+\gamma \wedge \Omega^{g}\right)=i\left[\gamma, \gamma_{5} \Omega^{g} \right] .$ | $G:=G_{\alpha} \gamma^{\alpha}:=\frac{1}{2} R^{\mu \nu} \wedge \eta_{\mu \nu \lambda} \gamma^{\lambda}=-i \gamma_{5}\left(\Omega^{g} \wedge \gamma+\gamma \wedge \Omega^{g}\right)=i\left[\gamma, \gamma_{5} \Omega^{g} \right] .$ |
| mielke-geometrodynamics_EQ0926 (14.1.7) | 303 | 0.960 | D\left(\vartheta \wedge^{*} \Omega^{g}\right) \equiv \Theta \wedge^{*} \Omega^{g} . | $D\left(\vartheta \wedge^{*} \Omega^{g}\right) \equiv \Theta \wedge^{*} \Omega^{g} .$ | $D\left(\vartheta \wedge^{*} \Omega^{g}\right) \equiv \Theta \wedge^{*} \Omega^{g} .$ |
| mielke-geometrodynamics_EQ0248 (4.3.13) | 92 | 0.961 | D \phi^{(\circ)}=\vartheta^{\alpha} \nabla_{\alpha} \phi^{(\circ)} . | $D \phi^{(\circ)}=\vartheta^{\alpha} \nabla_{\alpha} \phi^{(\circ)} .$ | $D \phi^{(\circ)}=\vartheta^{\alpha} \nabla_{\alpha} \phi^{(\circ)} .$ |
| mielke-geometrodynamics_EQ0282 (4.4.11) | 98 | 0.961 | \begin{aligned} d \Theta & =d d \vartheta-d\left[\omega^{ \mathrm{L}}, \vartheta\right] \\ & =-\left[d \omega^{ \mathrm{L}}, \vartheta\right]+\left[\omega^{\mathrm{L}}, d \vartheta\right] \\ & =-\left[\Omega^{\mathrm{L}}, \vartheta\right]-\left[\omega^{\mathrm{L}} \wedge \omega^{\mathrm{L}}, \vartheta\right]+\left[\omega^{\mathrm{L}}, \Theta\right]+\left[\omega^{\mathrm{L}},\left[\omega^{\mathrm{L}}, \vartheta\right]\right] \\ & =\left[\omega^{\mathrm{L}}, \Theta\right]+\left[\vartheta, \Omega^{\mathrm{L}}\right] \end{aligned} | $\begin{aligned} d \Theta & =d d \vartheta-d\left[\omega^{ \mathrm{L}}, \vartheta\right] \\ & =-\left[d \omega^{ \mathrm{L}}, \vartheta\right]+\left[\omega^{\mathrm{L}}, d \vartheta\right] \\ & =-\left[\Omega^{\mathrm{L}}, \vartheta\right]-\left[\omega^{\mathrm{L}} \wedge \omega^{\mathrm{L}}, \vartheta\right]+\left[\omega^{\mathrm{L}}, \Theta\right]+\left[\omega^{\mathrm{L}},\left[\omega^{\mathrm{L}}, \vartheta\right]\right] \\ & =\left[\omega^{\mathrm{L}}, \Theta\right]+\left[\vartheta, \Omega^{\mathrm{L}}\right] \end{aligned}$ | $\begin{aligned} d \Theta & =d d \vartheta-d\left[\omega^{ \mathrm{L}}, \vartheta\right] \\ & =-\left[d \omega^{ \mathrm{L}}, \vartheta\right]+\left[\omega^{\mathrm{L}}, d \vartheta\right] \\ & =-\left[\Omega^{\mathrm{L}}, \vartheta\right]-\left[\omega^{\mathrm{L}} \wedge \omega^{\mathrm{L}}, \vartheta\right]+\left[\omega^{\mathrm{L}}, \Theta\right]+\left[\omega^{\mathrm{L}},\left[\omega^{\mathrm{L}}, \vartheta\right]\right] \\ & =\left[\omega^{\mathrm{L}}, \Theta\right]+\left[\vartheta, \Omega^{\mathrm{L}}\right] \end{aligned}$ |
| mielke-geometrodynamics_EQ0010 (2.2.5) | 34 | 0.962 | T_{p}^{q}(M):=\bigcup_{m \in M} \otimes^{p} T_{m}^{*}(M) \otimes^{q} T_{m}(M) . | $T_{p}^{q}(M):=\bigcup_{m \in M} \otimes^{p} T_{m}^{*}(M) \otimes^{q} T_{m}(M) .$ | $T_{p}^{q}(M):=\bigcup_{m \in M} \otimes^{p} T_{m}^{*}(M) \otimes^{q} T_{m}(M) .$ |
| mielke-geometrodynamics_EQ0340 (5.3.17) | 115 | 0.962 | \begin{aligned} G_{\alpha} & :=\frac{1}{2} R^{\beta \gamma} \wedge \eta_{\alpha \beta \gamma} \\ & \left.\left.=G_{\alpha}^{\{ \}}+\frac{(-1)^{s}}{12} \left(e_{\alpha}\right\rfloor \mathscr{A} \wedge{ }^{*} \mathscr{A}-\frac{1}{3} \mathscr{A} \wedge e_{\alpha} \right\rfloor^{*} \mathscr{A}\right)+\frac{(-1)^{s}}{6} \vartheta_{\alpha} \wedge d \mathscr{A} \end{aligned} | $\begin{aligned} G_{\alpha} & :=\frac{1}{2} R^{\beta \gamma} \wedge \eta_{\alpha \beta \gamma} \\ & \left.\left.=G_{\alpha}^{\{ \}}+\frac{(-1)^{s}}{12} \left(e_{\alpha}\right\rfloor \mathscr{A} \wedge{ }^{*} \mathscr{A}-\frac{1}{3} \mathscr{A} \wedge e_{\alpha} \right\rfloor^{*} \mathscr{A}\right)+\frac{(-1)^{s}}{6} \vartheta_{\alpha} \wedge d \mathscr{A} \end{aligned}$ | $\begin{aligned} G_{\alpha} & :=\frac{1}{2} R^{\beta \gamma} \wedge \eta_{\alpha \beta \gamma} \\ & \left.\left.=G_{\alpha}^{\{ \}}+\frac{(-1)^{s}}{12} \left(e_{\alpha}\right\rfloor \mathscr{A} \wedge{ }^{*} \mathscr{A}-\frac{1}{3} \mathscr{A} \wedge e_{\alpha} \right\rfloor^{*} \mathscr{A}\right)+\frac{(-1)^{s}}{6} \vartheta_{\alpha} \wedge d \mathscr{A} \end{aligned}$ |
| mielke-geometrodynamics_EQ0424 (6.7.6) | 140 | 0.962 | \begin{aligned} \frac{1}{2 \kappa} T^{\gamma} \wedge \eta_{\alpha \beta \gamma} & -\frac{D \theta_{ \mathrm{T}}}{2 \ell^{2}} \wedge \vartheta_{\alpha} \wedge \vartheta_{\beta}+D \theta_{\mathrm{L}} \wedge R_{ \alpha \beta}=\vartheta_{[\alpha} \wedge \mu_{\beta]} \ \ & =\frac{1}{4} \vartheta_{\alpha} \wedge \vartheta_{\beta} \wedge^{*} j_{5} . \end{aligned} | $\begin{aligned} \frac{1}{2 \kappa} T^{\gamma} \wedge \eta_{\alpha \beta \gamma} & -\frac{D \theta_{ \mathrm{T}}}{2 \ell^{2}} \wedge \vartheta_{\alpha} \wedge \vartheta_{\beta}+D \theta_{\mathrm{L}} \wedge R_{ \alpha \beta}=\vartheta_{[\alpha} \wedge \mu_{\beta]} \ \ & =\frac{1}{4} \vartheta_{\alpha} \wedge \vartheta_{\beta} \wedge^{*} j_{5} . \end{aligned}$ | $\begin{aligned} \frac{1}{2 \kappa} T^{\gamma} \wedge \eta_{\alpha \beta \gamma} & -\frac{D \theta_{ \mathrm{T}}}{2 \ell^{2}} \wedge \vartheta_{\alpha} \wedge \vartheta_{\beta}+D \theta_{\mathrm{L}} \wedge R_{ \alpha \beta}=\vartheta_{[\alpha} \wedge \mu_{\beta]} \ \ & =\frac{1}{4} \vartheta_{\alpha} \wedge \vartheta_{\beta} \wedge^{*} j_{5} . \end{aligned}$ |
| mielke-geometrodynamics_EQ0809 (11.4.21) | 255 | 0.962 | i \gamma^{0} \vec{\gamma} \cdot \vec{\partial}\left[ \begin{array}{cc} i H(\rho) & \chi_{\kappa}^{m} \\ -F( \rho) & \chi_{-\kappa}^{m} \end{array}\right]=\frac{\vec{ \sigma} \cdot \vec{x}}{\|\vec{x}\|}\left(\partial_{r}- \frac{\vec{\sigma} \cdot \vec{L}}{r}\right)\left[ \begin{array}{cc} i F(\rho) & \chi_{-\kappa}^{m} \\ H(\rho) & \chi_{\kappa}^{m} \end{array}\right] . | $i \gamma^{0} \vec{\gamma} \cdot \vec{\partial}\left[ \begin{array}{cc} i H(\rho) & \chi_{\kappa}^{m} \\ -F( \rho) & \chi_{-\kappa}^{m} \end{array}\right]=\frac{\vec{ \sigma} \cdot \vec{x}}{\|\vec{x}\|}\left(\partial_{r}- \frac{\vec{\sigma} \cdot \vec{L}}{r}\right)\left[ \begin{array}{cc} i F(\rho) & \chi_{-\kappa}^{m} \\ H(\rho) & \chi_{\kappa}^{m} \end{array}\right] .$ | $i \gamma^{0} \vec{\gamma} \cdot \vec{\partial}\left[ \begin{array}{cc} i H(\rho) & \chi_{\kappa}^{m} \\ -F( \rho) & \chi_{-\kappa}^{m} \end{array}\right]=\frac{\vec{ \sigma} \cdot \vec{x}}{\|\vec{x}\|}\left(\partial_{r}- \frac{\vec{\sigma} \cdot \vec{L}}{r}\right)\left[ \begin{array}{cc} i F(\rho) & \chi_{-\kappa}^{m} \\ H(\rho) & \chi_{\kappa}^{m} \end{array}\right] .$ |

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| mielke-geometrodynamics_EQ0475 (7.4.3) | 156 | 0.963 | `{ }^{*} R_{\alpha \beta}^{(\star)}=-C_{\alpha \beta}+ \frac{1}{2} R i^{\tau}{ }_{\alpha \beta}+\frac{R}{12} \vartheta_{\alpha} \wedge \vartheta_{\beta} .` | $^{*}R^{(\star)}_{\alpha\beta} = -C_{\alpha\beta} + \frac{1}{2} R i^{\tau}{}_{\alpha\beta} + \frac{R}{12} \vartheta_{\alpha} \wedge \vartheta_{\beta}.$ | $^{*}R^{(\star)}_{\alpha\beta} = -C_{\alpha\beta} + \frac{1}{2} R i^{\tau}{}_{\alpha\beta} + \frac{R}{12} \vartheta_{\alpha} \wedge \vartheta_{\beta}.$ |
| mielke-geometrodynamics_EQ0485 (7.7.1) | 159 | 0.963 | `g_{i j} \rightarrow \widetilde{g}_{i j}=g_{i j}+a \operatorname{Ric}_{i j}+b g_{i j} \operatorname{Ric}_{k}^{k}` | $g_{ij} \rightarrow \widetilde{g}_{ij} = g_{ij} + a \operatorname{Ric}_{ij} + b g_{ij} \operatorname{Ric}_{k}^{k}$ | $g_{ij} \rightarrow \widetilde{g}_{ij} = g_{ij} + a \operatorname{Ric}_{ij} + b g_{ij} \operatorname{Ric}_{k}{}^{k}$ |
| mielke-geometrodynamics_EQ1143 (C.11) | 376 | 0.963 | `(A, B):=\operatorname{Tr}(\operatorname{Ad} A \operatorname{Ad} B)=c_{\iota k}^{i} c_{s i}^{k} A^{ \iota} B^{s}=: \stackrel{\circ}{g}_{\iota s} A^{\iota} B^{s}` | $(A, B) := \operatorname{Tr}(\operatorname{Ad} A \operatorname{Ad} B) = c_{\iota k}^{i} c_{s i}^{k} A^{\iota} B^{s} =: \stackrel{\circ}{g}_{\iota s} A^{\iota} B^{s}$ | $(A, B) := \operatorname{Tr}(\operatorname{Ad} A \operatorname{Ad} B) = c_{\iota k}^{i} c_{s i}^{k} A^{\iota} B^{s} =: \stackrel{\circ}{g}_{\iota s} A^{\iota} B^{s}$ |
| mielke-geometrodynamics_EQ1122 (B.34) | 372 | 0.963 | `H^{p}\left(S^{n}\right)=0 \quad \text { for } \quad 1 \leq p \leq n-1 .` | $H^{p}\left(S^{n}\right)=0 \quad \text{ for } \quad 1 \leq p \leq n-1 .$ | $H^{p}\left(S^{n}\right)=0 \quad \text{ for } \quad 1 \leq p \leq n-1 .$ |
| mielke-geometrodynamics_EQ0791 (11.4.3) | 252 | 0.964 | `\left\{i \gamma^{k} \nabla_{k}^{(t)}+\frac{3 \varepsilon}{8} \ell^{2}\left(\bar{\psi} \psi-a \bar{ \psi} \gamma^{5} \psi \gamma^{5}\right)-m\right\} \psi=0` | $\left\{i \gamma^{k} \nabla_{k}^{(t)}+\frac{3 \varepsilon}{8} \ell^{2}\left(\bar{\psi} \psi-a \bar{\psi} \gamma^{5} \psi \gamma^{5}\right)-m\right\} \psi=0$ | $\left\{i \gamma^{k} \nabla_{k}^{(t)}+\frac{3 \varepsilon}{8} \ell^{2}\left(\bar{\psi} \psi-a \bar{\psi} \gamma^{5} \psi \gamma^{5}\right)-m\right\} \psi=0$ |
| mielke-geometrodynamics_EQ0575 (8.6.13) | 185 | 0.964 | `\left.\left.R:=e_{\beta}\right\rfloor e_{\alpha} \right\rfloor R^{\alpha \beta}=\frac{6\left(\theta_{ \mathrm{T}}^{*}-a_{0}\right)}{\ell^{2}\left(\theta_{ \mathrm{L}}^{\star}-b_{6}\right)}` | $R:=e_{\beta}\rfloor e_{\alpha}\rfloor R^{\alpha \beta}=\frac{6\left(\theta_{\mathrm{T}}^{*}-a_{0}\right)}{\ell^{2}\left(\theta_{\mathrm{L}}^{\star}-b_{6}\right)}$ | $R:=e_{\beta}\rfloor e_{\alpha}\rfloor R^{\alpha \beta}=\frac{6\left(\theta_{\mathrm{T}}^{*}-a_{0}\right)}{\ell^{2}\left(\theta_{\mathrm{L}}^{\star}-b_{6}\right)}$ |
| mielke-geometrodynamics_EQ0996 (14.3.9) | 321 | 0.965 | `i \widehat{D} \widehat{\psi}:=i \widehat{\gamma} \wedge^{*} \widehat{D} \widehat{\psi}=i \gamma \wedge{ }^{*} D \widehat{\psi}+i \not D^{(i n t)} \widehat{ \psi}=0,` | $i \widehat{D} \widehat{\psi}:=i \widehat{\gamma} \wedge^{*} \widehat{D} \widehat{\psi}=i \gamma \wedge^{*} D \widehat{\psi}+i \not D^{(int)} \widehat{\psi}=0,$ | $i \widehat{D} \widehat{\psi}:=i \widehat{\gamma} \wedge^{*} \widehat{D} \widehat{\psi}=i \gamma \wedge^{*} D \widehat{\psi}+i \not D^{(int)} \widehat{\psi}=0,$ |
| mielke-geometrodynamics_EQ0131 (3.4.2) | 62 | 0.966 | `{ }^{*} \mathscr{F}:=\frac{1}{\alpha_{g}} \operatorname{Tr}\left\{{ }^{*}(\Omega \wedge \Omega) \right\}=\frac{1}{4 \alpha_{g}} F_{\alpha \beta}{ }^{j *} F^{\alpha \beta}{ }_{j} .` | $^{*}\mathscr{F} := \frac{1}{\alpha_g} \operatorname{Tr}\left\{{}^{*}(\Omega \wedge \Omega)\right\} = \frac{1}{4\alpha_g} F_{\alpha\beta}{}^{j *}F^{\alpha\beta}{}_{j}.$ | $^{*}\mathscr{F} := \frac{1}{\alpha_g} \operatorname{Tr}\left\{{}^{*}(\Omega \wedge \Omega)\right\} = \frac{1}{4\alpha_g} F_{\alpha\beta}{}^{j *}F^{\alpha\beta}{}_{j}.$ |
| mielke-geometrodynamics_EQ1089 (A.16) | 366 | 0.967 | `\begin{aligned} & \left(\widehat{\gamma}^{A}\right)^{ \mathrm{T}}:=\left(\widehat{\gamma}^{\mu}, \widehat{ \gamma}^{2 p+1}, \widehat{\gamma}^{2 p+2}\right), \\ & \widehat{\gamma}^{\mu}:=\gamma^{\mu} \otimes\left[ \bigotimes_{i=1}^{\left[\frac{n-2}{2}\right]} \sigma^{1} \right], \\ & \widehat{\gamma}^{2 p+1}:=i \mathbb{1} \otimes\left(\bigotimes_{i=1}^{p-2} \sigma^{0}\right) \otimes \sigma^{3} \otimes\left(\bigotimes_{j=1}^{l-p+1} \sigma^{1}\right), \\ & \widehat{\gamma}^{2 p+2}:=i \mathbb{1} \otimes\left(\bigotimes_{i=1}^{p-2} \sigma^{0}\right) \otimes \sigma^{2} \otimes\left( \bigotimes_{j=1}^{l-p+2} \sigma^{1}\right), \end{aligned}` | $\begin{aligned} & \left(\widehat{\gamma}^{A}\right)^{\mathrm{T}}:=\left(\widehat{\gamma}^{\mu}, \widehat{\gamma}^{2 p+1}, \widehat{\gamma}^{2 p+2}\right), \\ & \widehat{\gamma}^{\mu}:=\gamma^{\mu} \otimes\left[\bigotimes_{i=1}^{\left[\frac{n-2}{2}\right]} \sigma^{1}\right], \\ & \widehat{\gamma}^{2 p+1}:=i \mathbb{1} \otimes\left(\bigotimes_{i=1}^{p-2} \sigma^{0}\right) \otimes \sigma^{3} \otimes\left(\bigotimes_{j=1}^{l-p+1} \sigma^{1}\right), \\ & \widehat{\gamma}^{2 p+2}:=i \mathbb{1} \otimes\left(\bigotimes_{i=1}^{p-2} \sigma^{0}\right) \otimes \sigma^{2} \otimes\left(\bigotimes_{j=1}^{l-p+2} \sigma^{1}\right), \end{aligned}$ | $\begin{aligned} & \left(\widehat{\gamma}^{A}\right)^{\mathrm{T}}:=\left(\widehat{\gamma}^{\mu}, \widehat{\gamma}^{2 p+1}, \widehat{\gamma}^{2 p+2}\right), \\ & \widehat{\gamma}^{\mu}:=\gamma^{\mu} \otimes\left[\bigotimes_{i=1}^{\left[\frac{n-2}{2}\right]} \sigma^{1}\right], \\ & \widehat{\gamma}^{2 p+1}:=i \mathbb{1} \otimes\left(\bigotimes_{i=1}^{p-2} \sigma^{0}\right) \otimes \sigma^{3} \otimes\left(\bigotimes_{j=1}^{l-p+1} \sigma^{1}\right), \\ & \widehat{\gamma}^{2 p+2}:=i \mathbb{1} \otimes\left(\bigotimes_{i=1}^{p-2} \sigma^{0}\right) \otimes \sigma^{2} \otimes\left(\bigotimes_{j=1}^{l-p+2} \sigma^{1}\right), \end{aligned}$ |

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| mielke-geometrodynamics_EQ1090 (A.17) | 367 | 0.967 | `\stackrel{*}{\sigma} \alpha\left(e_{\alpha_{1}}, \ldots, e_{\alpha_{p}}\right):=\alpha\left(\sigma_{*} e_{\alpha_{1}}, \ldots, \sigma_{*} e_{\alpha_{p}}\right) .` | $\overset{*}{\sigma}\,\alpha\left(e_{\alpha_1}, \ldots, e_{\alpha_p}\right) := \alpha\left(\sigma_* e_{\alpha_1}, \ldots, \sigma_* e_{\alpha_p}\right).$ | $\overset{*}{\sigma}\alpha(e_{\alpha_1}, \ldots, e_{\alpha_p}) := \alpha(\sigma_* e_{\alpha_1}, \ldots, \sigma_* e_{\alpha_p}).$ |
| mielke-geometrodynamics_EQ0592 (9.1.10) | 195 | 0.968 | `\stackrel{+}{\Omega}^{g}=\frac{\gamma \kappa}{\ell^{* 2}} \vartheta \wedge \vartheta .` | $\overset{+}{\Omega}{}^{g} = \frac{\gamma\kappa}{\ell^{*2}} \vartheta \wedge \vartheta.$ | $\overset{+}{\Omega}{}^{g} = \frac{\gamma\kappa}{\ell^{*2}} \vartheta \wedge \vartheta.$ |
| mielke-geometrodynamics_EQ0611 (9.3.2) | 202 | 0.968 | `L_{\mathrm{SKY}}:=-\frac{1}{2} R_{\alpha \beta} \wedge{ }^{*} R^{\alpha \beta},` | $L_{\mathrm{SKY}} := -\frac{1}{2} R_{\alpha\beta} \wedge {}^{*}R^{\alpha\beta},$ | $L_{\mathrm{SKY}} := -\frac{1}{2} R_{\alpha\beta} \wedge {}^{*}R^{\alpha\beta},$ |
| mielke-geometrodynamics_EQ0841 (12.2.9) | 272 | 0.968 | `\mu_{\alpha}=\frac{1}{4} \vartheta_{\alpha} \wedge{ }^{*} j_{5} .` | $\mu_\alpha = \frac{1}{4} \vartheta_\alpha \wedge {}^{*} j_5.$ | $\mu_\alpha = \frac{1}{4} \vartheta_\alpha \wedge {}^{*} j_5.$ |
| mielke-geometrodynamics_EQ0636 (10.2.7) | 212 | 0.970 | `T_{\alpha}=\frac{\varepsilon}{\ell} \eta_{\alpha}, \quad R_{\alpha}^{\star}=\frac{\rho}{\ell^{2}} \eta_{\alpha},` | $T_\alpha = \frac{\varepsilon}{\ell}\eta_\alpha, \quad R^\star_\alpha = \frac{\rho}{\ell^2}\eta_\alpha,$ | $T_\alpha = \frac{\varepsilon}{\ell}\eta_\alpha, \quad R^\star_\alpha = \frac{\rho}{\ell^2}\eta_\alpha,$ |
| mielke-geometrodynamics_EQ1137 (C.5) | 376 | 0.970 | `3 c_{[i \mid s}{ }^{p} c_{\mid j k]}{ }^{s}:=c_{i s}{ }^{p} c_{j k}{ }^{s}+c_{j s}{ }^{p} c_{k i}{ }^{s}+c_{k s}{ }^{p} c_{i j}{ }^{s} \equiv 0 .` | $3c_{[i\|s}{}^p c_{\|jk]}{}^s := c_{is}{}^p c_{jk}{}^s + c_{js}{}^p c_{ki}{}^s + c_{ks}{}^p c_{ij}{}^s \equiv 0.$ | $3c_{[i\|s}{}^p c_{\|jk]}{}^s := c_{is}{}^p c_{jk}{}^s + c_{js}{}^p c_{ki}{}^s + c_{ks}{}^p c_{ij}{}^s \equiv 0.$ |
| mielke-geometrodynamics_EQ0415 (6.5.3) | 137 | 0.970 | `\begin{aligned} \langle 0\| W(\gamma)\|0\rangle^{(1)} & =\int_{\mathscr{C} \mid \mathscr{G}} \mathscr{D} A e^{i C} W(A, \gamma) \\ & =\frac{1}{4 \pi} \oint d s \oint d t \dot{\gamma}^{\mu}(s) \dot{\gamma}^{\nu}(t) \eta_{0 \mu \nu \kappa} \frac{\gamma^{\kappa}(s)-\gamma^{\kappa}(t)}{\|\gamma(s)-\gamma(t)\|^{3}} \end{aligned}` | $\begin{aligned} \langle 0\|W(\gamma)\|0\rangle^{(1)} &= \int_{\mathscr{C}/\mathscr{G}} \mathscr{D}A\, e^{iC} W(A,\gamma) \\ &= \frac{1}{4\pi}\oint ds \oint dt \dot{\gamma}^\mu(s)\dot{\gamma}^\nu(t)\eta_{0\mu\nu\kappa}\frac{\gamma^\kappa(s)-\gamma^\kappa(t)}{\|\gamma(s)-\gamma(t)\|^3} \end{aligned}$ | $\begin{aligned} \langle 0\|W(\gamma)\|0\rangle^{(1)} &= \int_{\mathscr{C}/\mathscr{G}} \mathscr{D}A\, e^{iC} W(A,\gamma) \\ &= \frac{1}{4\pi}\oint ds \oint dt \dot{\gamma}^\mu(s)\dot{\gamma}^\nu(t)\eta_{0\mu\nu\kappa}\frac{\gamma^\kappa(s)-\gamma^\kappa(t)}{\|\gamma(s)-\gamma(t)\|^3} \end{aligned}$ |
| mielke-geometrodynamics_EQ0495 (7.7.13) | 162 | 0.971 | `{ }^{*}\left(\vartheta^{\alpha} \wedge \vartheta^{\beta} \wedge \vartheta^{\gamma} \wedge \vartheta^{\delta} \right)=\eta^{\alpha \beta \gamma \delta}, \text { where } \eta_{\alpha \beta \gamma \delta}:=+\delta_{\alpha \beta \gamma \delta}^{0123},` | ${}^*\left(\vartheta^\alpha \wedge \vartheta^\beta \wedge \vartheta^\gamma \wedge \vartheta^\delta\right) = \eta^{\alpha\beta\gamma\delta}, \text{ where } \eta_{\alpha\beta\gamma\delta} := +\delta^{0123}_{\alpha\beta\gamma\delta},$ | ${}^*(\vartheta^\alpha \wedge \vartheta^\beta \wedge \vartheta^\gamma \wedge \vartheta^\delta) = \eta^{\alpha\beta\gamma\delta}, \text{ where } \eta_{\alpha\beta\gamma\delta} := +\delta^{0123}_{\alpha\beta\gamma\delta},$ |
| mielke-geometrodynamics_EQ1147 (C.16) | 377 | 0.971 | `\begin{aligned} {\left[\lambda_{i}, \lambda_{j}\right] } & =2 i \mathrm{f}_{i j}^{k} \lambda_{k} \quad\left(c_{i j}^{k}=2 i f_{i g}^{k}\right), \\ \left\{\lambda_{i}, \lambda_{j}\right\}_{+} & =\frac{4}{N} \delta_{i j}+2 d_{i j}^{k} \lambda_{k} . \end{aligned}` | $\begin{aligned} [\lambda_i, \lambda_j] &= 2i\mathrm{f}_{ij}{}^k\lambda_k \quad \left(c_{ij}{}^k = 2if_{ig}{}^k\right), \\ \{\lambda_i, \lambda_j\}_+ &= \frac{4}{N}\delta_{ij} + 2d_{ij}{}^k\lambda_k. \end{aligned}$ | $\begin{aligned} [\lambda_i, \lambda_j] &= 2i\mathrm{f}_{ij}{}^k\lambda_k \quad (c_{ij}{}^k = 2if_{ig}{}^k), \\ \{\lambda_i, \lambda_j\}_+ &= \frac{4}{N}\delta_{ij} + 2d_{ij}{}^k\lambda_k. \end{aligned}$ |
| mielke-geometrodynamics_EQ0129 (3.3.30) | 61 | 0.972 | `\begin{aligned} j:=\frac{\delta L_{\mathrm{matter}}}{ \delta A} & =\frac{\partial L_{\mathrm{matter}}}{\partial A}+d \frac{\partial L_{\mathrm{matter}}}{\partial d A} \\ & =\Psi \wedge \frac{\partial L_{\mathrm{matter}}}{ \partial D \Psi}+D \frac{\partial L_{\mathrm{matter}}}{ \partial B}, \end{aligned}` | $\begin{aligned} j := \frac{\delta L_{\mathrm{matter}}}{\delta A} &= \frac{\partial L_{\mathrm{matter}}}{\partial A} + d\frac{\partial L_{\mathrm{matter}}}{\partial dA} \\ &= \Psi \wedge \frac{\partial L_{\mathrm{matter}}}{\partial D\Psi} + D\frac{\partial L_{\mathrm{matter}}}{\partial B}, \end{aligned}$ | $\begin{aligned} j := \frac{\delta L_{\mathrm{matter}}}{\delta A} &= \frac{\partial L_{\mathrm{matter}}}{\partial A} + d\frac{\partial L_{\mathrm{matter}}}{\partial dA} \\ &= \Psi \wedge \frac{\partial L_{\mathrm{matter}}}{\partial D\Psi} + D\frac{\partial L_{\mathrm{matter}}}{\partial B}, \end{aligned}$ |

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| mielke-geometrodynamics_EQ0784 (11.3.3) | 248 | 0.972 | `\begin{aligned} L_{\mathrm{NL}}=\frac{1}{2} \bar{\psi} \left[\widetilde{K},{ }^{*} \gamma\right] \psi & =-3 i^{*}[\Theta, \vartheta] \wedge\left(\bar{\psi}^{*} \gamma \psi\right) \\ & =-3 \tau_{s} \wedge[\Theta, \vartheta] . \end{aligned}` | $L_{\mathrm{NL}}=\frac{1}{2}\bar{\psi}\left[\widetilde{K},{}^{*}\gamma\right]\psi=-3i^{*}[\Theta,\vartheta]\wedge\left(\bar{\psi}^{*}\gamma\psi\right) \\ =-3\tau_{s}\wedge[\Theta,\vartheta].$ | $L_{\mathrm{NL}}=\frac{1}{2}\overline{\psi}[\widetilde{K},{}^{*}\gamma]\psi=-3i^{*}[\Theta,\vartheta]\wedge(\overline{\psi}^{*}\gamma\psi) \\ =-3\tau_{s}\wedge[\Theta,\vartheta].$ |
| mielke-geometrodynamics_EQ0666 (10.3.23) | 218 | 0.972 | `\square \vartheta_{\alpha}+\frac{\ell}{\gamma}{ }^{*} D^{*}\left(\delta \ell E_{\alpha}+S_{\alpha}\right)=0,` | $\square\vartheta_{\alpha}+\frac{\ell}{\gamma}{}^{*}D^{*}\left(\delta\ell E_{\alpha}+S_{\alpha}\right)=0,$ | $\square\vartheta_{\alpha}+\frac{\ell}{\gamma}{}^{*}D^{*}\left(\delta\ell E_{\alpha}+S_{\alpha}\right)=0,$ |
| mielke-geometrodynamics_EQ0945 (14.1.26) | 306 | 0.972 | `\begin{aligned} \Sigma_{\mathrm{YM}}(\Omega) \wedge \Sigma_{\mathrm{YM}}(\Omega) & =\frac{1}{4 \alpha_{g}} \operatorname{Tr}\left\{-\xi \wedge \xi \wedge\left( \vartheta \wedge^{*} \xi\right) \wedge\left(\vartheta \wedge^{*} \xi\right)\right. \\ & +\vartheta \wedge \vartheta \wedge^{*}\left(\xi \wedge^{*} \xi\right)^{2} & \left.-\vartheta \wedge^{*} \xi \wedge^{*}\left(\vartheta \wedge^{*} \xi\right) \wedge^{*}\left(\xi \wedge^{*} \xi\right)\right\} \\ & =\vartheta \wedge \vartheta \wedge^{*}\left(\Sigma_{\mathrm{YM}}(\xi) \wedge^{*} \Sigma_{\mathrm{YM}}(\xi)\right) \end{aligned}` | $\Sigma_{\mathrm{YM}}(\Omega)\wedge\Sigma_{\mathrm{YM}}(\Omega)=\frac{1}{4\alpha_{g}}\operatorname{Tr}\left\{-\xi\wedge\xi\wedge(\vartheta\wedge^{*}\xi)\wedge(\vartheta\wedge^{*}\xi)\right. \\ +\vartheta\wedge\vartheta\wedge^{*}(\xi\wedge^{*}\xi)^{2}-\vartheta\wedge^{*}\xi\wedge^{*}(\vartheta\wedge^{*}\xi)\wedge^{*}(\xi\wedge^{*}\xi)\} \\ =\vartheta\wedge\vartheta\wedge^{*}(\Sigma_{\mathrm{YM}}(\xi)\wedge^{*}\Sigma_{\mathrm{YM}}(\xi))$ | $\Sigma_{\mathrm{YM}}(\Omega)\wedge\Sigma_{\mathrm{YM}}(\Omega)=\frac{1}{4\alpha_{g}}\operatorname{Tr}\left\{-\xi\wedge\xi\wedge(\vartheta\wedge^{*}\xi)\wedge(\vartheta\wedge^{*}\xi)\right. \\ +\vartheta\wedge\vartheta\wedge^{*}(\xi\wedge^{*}\xi)^{2}-\vartheta\wedge^{*}\xi\wedge^{*}(\vartheta\wedge^{*}\xi)\wedge^{*}(\xi\wedge^{*}\xi)\} \\ =\vartheta\wedge\vartheta\wedge^{*}(\Sigma_{\mathrm{YM}}(\xi)\wedge^{*}\Sigma_{\mathrm{YM}}(\xi))$ |
| mielke-geometrodynamics_EQ0462 (7.3.1) | 153 | 0.973 | `L_{\mathrm{SKY}}=\operatorname{Tr}\left(\Omega^{g} \wedge^{*} \Omega^{g}\right)=-\frac{1}{2} R^{\alpha \beta} \wedge{ }^{*} R_{\alpha \beta},` | $L_{\mathrm{SKY}}=\operatorname{Tr}\left(\Omega^{g}\wedge^{*}\Omega^{g}\right)=-\frac{1}{2}R^{\alpha\beta}\wedge{}^{*}R_{\alpha\beta},$ | $L_{\mathrm{SKY}}=\operatorname{Tr}(\Omega^{g}\wedge{}^{*}\Omega^{g})=-\frac{1}{2}R^{\alpha\beta}\wedge{}^{*}R_{\alpha\beta},$ |
| mielke-geometrodynamics_EQ0356 (6.2.7) | 124 | 0.974 | `D T^{\alpha} \equiv R_{\beta}{ }^{\alpha} \wedge \vartheta^{\beta}` | $DT^{\alpha}\equiv R_{\beta}{}^{\alpha}\wedge\vartheta^{\beta}$ | $DT^{\alpha}\equiv R_{\beta}{}^{\alpha}\wedge\vartheta^{\beta}$ |
| mielke-geometrodynamics_EQ0712 (10.8.1) | 228 | 0.975 | `\Psi=\Psi_{i} d x^{i}=\Psi_{\alpha} \vartheta^{\alpha}` | $\Psi=\Psi_{i}dx^{i}=\Psi_{\alpha}\vartheta^{\alpha}$ | $\Psi=\Psi_{i}dx^{i}=\Psi_{\alpha}\vartheta^{\alpha}$ |
| mielke-geometrodynamics_EQ0971 (14.2.12) | 314 | 0.975 | `\hat{d}:=\left[\begin{array}{c\|c} d & 0 \\ \hline 0 & \stackrel{\circ}{d} \end{array}\right],` | $\hat{d}:=\left[\begin{array}{c\|c} d & 0 \\ \hline 0 & \stackrel{\circ}{d} \end{array}\right],$ | $\hat{d}:=\left[\begin{array}{c\|c} d & 0 \\ \hline 0 & \stackrel{\circ}{d} \end{array}\right],$ |
| mielke-geometrodynamics_EQ0557 (8.4.11) | 181 | 0.975 | `\left\langle d j_{5}\right\rangle=2 i^{*} m\left\langle \bar{\psi} \gamma_{5} \psi\right\rangle-\frac{1}{48 \pi^{2}}\left(R_{\alpha \beta}^{\{ \}} \wedge R^{\{ \beta \alpha \beta}+\frac{1}{2} d \mathscr{A} \wedge d \mathscr{A}\right),` | $\left\langle dj_{5}\right\rangle=2i^{*}m\left\langle\bar{\psi}\gamma_{5}\psi\right\rangle-\frac{1}{48\pi^{2}}\left(R_{\alpha\beta}^{\{\}}\wedge R^{\{\beta\alpha\beta}+\frac{1}{2}d\mathscr{A}\wedge d\mathscr{A}\right),$ | $\left\langle dj_{5}\right\rangle=2i\,{}^{*}m\left\langle\overline{\psi}\gamma_{5}\psi\right\rangle-\frac{1}{48\pi^{2}}\left(R_{\alpha\beta}^{\{\}}\wedge R^{\{\}\alpha\beta}+\frac{1}{2}d\mathscr{A}\wedge d\mathscr{A}\right),$ |
| mielke-geometrodynamics_EQ0487 (7.7.4) | 160 | 0.977 | `\left.\left.\left.\eta_{\alpha \beta} \quad \rightarrow \quad \tilde{\eta}_{\alpha \beta}=\eta_{\alpha \beta}+ \ell^{2} \eta_{\alpha \beta \gamma} \wedge e_{\mu} \right\rfloor^{*} H^{\mu \gamma}+\frac{\ell^{4}}{2} \eta_{\alpha \beta \gamma \delta}\left(e_{\mu}\right\rfloor^{*} H^{\gamma \mu}\right) \wedge\left(e_{\nu}\right\rfloor^{*} H^{\delta \nu}\right) .` | $\eta_{\alpha\beta}\quad\rightarrow\quad\tilde{\eta}_{\alpha\beta}=\eta_{\alpha\beta}+\ell^{2}\eta_{\alpha\beta\gamma}\wedge e_{\mu}\rfloor^{*}H^{\mu\gamma}+\frac{\ell^{4}}{2}\eta_{\alpha\beta\gamma\delta}(e_{\mu}\rfloor^{*}H^{\gamma\mu})\wedge(e_{\nu}\rfloor^{*}H^{\delta\nu}).$ | $\eta_{\alpha\beta}\quad\rightarrow\quad\widetilde{\eta}_{\alpha\beta}=\eta_{\alpha\beta}+\ell^{2}\eta_{\alpha\beta\gamma}\wedge e_{\mu}\rfloor^{*}H^{\mu\gamma}+\frac{\ell^{4}}{2}\eta_{\alpha\beta\gamma\delta}(e_{\mu}\rfloor^{*}H^{\gamma\mu})\wedge(e_{\nu}\rfloor^{*}H^{\delta\nu}).$ |
| mielke-geometrodynamics_EQ1068 (16.2.7) | 355 | 0.978 | `\left[\partial_{\rho^{*}}^{2}-V_{\mathrm{eff}}^{\iota} \left(\rho^{*}\right)+\frac{\omega^{2}}{\beta^{2}}\right] F=0` | $\left[\partial_{\rho^{*}}^{2}-V_{\mathrm{eff}}^{\iota}(\rho^{*})+\frac{\omega^{2}}{\beta^{2}}\right]F=0$ | $\left[\partial_{\rho^{*}}^{2}-V_{\mathrm{eff}}^{\iota}(\rho^{*})+\frac{\omega^{2}}{\beta^{2}}\right]F=0$ |
| mielke-geometrodynamics_EQ1114 (B.26) | 371 | 0.979 | `H^{p}(M)=0 \text { for } p>n,` | $H^{p}(M)=0\text{ for }p>n,$ | $H^{p}(M)=0\quad\text{for}\quad p>n,$ |

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| mielke-geometrodynamics_EQ0007 (2.2.2) | 33 | 0.980 | `\vartheta=\vartheta^{\alpha} P_{\alpha} \in C^{\infty} \left(T^{*}(M)\right),` | $\vartheta = \vartheta^{\alpha} P_{\alpha} \in C^{\infty}\left(T^{*}(M)\right),$ | $\vartheta = \vartheta^{\alpha} P_{\alpha} \in C^{\infty}(T^{*}(M)),$ |
| mielke-geometrodynamics_EQ0908 (13.5.13) | 291 | 0.980 | `D g_{\alpha \beta}=0,` | $Dg_{\alpha\beta} = 0,$ | $Dg_{\alpha\beta} = 0,$ |
| mielke-geometrodynamics_EQ0536 (8.2.3) | 175 | 0.980 | `\begin{aligned} (d \oplus s) \tilde{\Gamma}+\frac{1}{2}[ \widetilde{\Gamma}, \widetilde{\Gamma}] & =\widetilde{ \Omega}^{g} \\ (d \oplus s) \widetilde{\Omega}^{g}+\left[ \widetilde{\Gamma}, \widetilde{\Omega}^{g}\right] & \equiv 0 \end{aligned}` | $\begin{aligned} (d \oplus s)\tilde{\Gamma} + \frac{1}{2}[\widetilde{\Gamma}, \widetilde{\Gamma}] &= \widetilde{\Omega}^{g} \\ (d \oplus s)\widetilde{\Omega}^{g} + \left[\widetilde{\Gamma}, \widetilde{\Omega}^{g}\right] &\equiv 0 \end{aligned}$ | $(d \oplus s)\widetilde{\Gamma} + \frac{1}{2}[\widetilde{\Gamma}, \widetilde{\Gamma}] = \widetilde{\Omega}^{g},$ $(d \oplus s)\widetilde{\Omega}^{g} + [\widetilde{\Gamma}, \widetilde{\Omega}^{g}] \equiv 0,$ |
| mielke-geometrodynamics_EQ0911 (13.6.1) | 292 | 0.980 | `\begin{aligned} d s^{2} & :=\frac{\ell^{2}}{\mu^{2}} \left\langle\hat{D} \Phi^{A} \otimes_{\mathrm{s}} \hat{D} \Phi_{A}\right\rangle=\frac{\ell^{2}}{\mu^{2}} \hat{D} \Phi_{0}^{A} \otimes_{\mathrm{s}} \hat{D} \Phi_{A 0} \\ & =\ell^{2} \Gamma_{4}^{\alpha} \otimes_{ \mathrm{s}} \Gamma_{\alpha}^{4}=\left(\vartheta^{ \alpha}-D \xi^{\alpha}\right) \otimes_{\mathrm{s}} \left(\theta_{\alpha}-D \xi_{\alpha}^{*}\right) \\ & \stackrel{*}{=} \vartheta^{\alpha} \otimes_{\mathrm{s}} \theta_{\alpha}=g_{i j} d x^{i} \otimes_{\mathrm{s}} d x^{j} \end{aligned}` | $\begin{aligned} ds^{2} &:= \frac{\ell^{2}}{\mu^{2}} \left\langle \hat{D}\Phi^{A} \otimes_{\mathrm{s}} \hat{D}\Phi_{A}\right\rangle = \frac{\ell^{2}}{\mu^{2}} \hat{D}\Phi_{0}^{A} \otimes_{\mathrm{s}} \hat{D}\Phi_{A0} \\ &= \ell^{2}\Gamma_{4}^{\alpha} \otimes_{\mathrm{s}} \Gamma_{\alpha}^{4} = (\vartheta^{\alpha} - D\xi^{\alpha}) \otimes_{\mathrm{s}} (\theta_{\alpha} - D\xi_{\alpha}^{*}) \\ &\stackrel{*}{=} \vartheta^{\alpha} \otimes_{\mathrm{s}} \theta_{\alpha} = g_{ij} dx^{i} \otimes_{\mathrm{s}} dx^{j} \end{aligned}$ | $\begin{aligned} ds^{2} &:= \frac{\ell^{2}}{\mu^{2}} \langle \hat{D}\Phi^{A} \otimes_{\mathrm{s}} \hat{D}\Phi_{A}\rangle = \frac{\ell^{2}}{\mu^{2}} \hat{D}\Phi_{0}^{A} \otimes_{\mathrm{s}} \hat{D}\Phi_{A0} \\ &= \ell^{2}\Gamma_{4}{}^{\alpha} \otimes_{\mathrm{s}} \Gamma_{\alpha}{}^{4} = (\vartheta^{\alpha} - D\xi^{\alpha}) \otimes_{\mathrm{s}} (\theta_{\alpha} - D\xi_{\alpha}^{*}) \\ &\stackrel{*}{=} \vartheta^{\alpha} \otimes_{\mathrm{s}} \theta_{\alpha} = g_{ij} dx^{i} \otimes_{\mathrm{s}} dx^{j}. \end{aligned}$ |
| mielke-geometrodynamics_EQ0931 (14.1.12) | 304 | 0.981 | `\Omega \rightarrow e^{* \delta} \Omega:=\Omega \cos \delta+(-1)^{z *} \Omega \sin \delta .` | $\Omega \rightarrow e^{*\delta}\Omega := \Omega \cos\delta + (-1)^{z*}\Omega \sin\delta.$ | $\Omega \rightarrow e^{*\delta}\Omega := \Omega \cos\delta + (-1)^{z\ *}\Omega \sin\delta.$ |
| mielke-geometrodynamics_EQ0671 (10.3.28) | 219 | 0.982 | `\check{\mathscr{J}}_{\alpha}^{\star}:=d H_{\alpha}^{ \star} \cong \tau_{\alpha}^{\star}+E_{\alpha}^{ \star}-(-1)^{s} \eta_{\alpha \beta \gamma} \Gamma^{ \star \beta} \wedge H^{\star \gamma},` | $\check{\mathscr{J}}_{\alpha}^{\star} := dH_{\alpha}^{\star} \cong \tau_{\alpha}^{\star} + E_{\alpha}^{\star} - (-1)^{s}\eta_{\alpha\beta\gamma}\Gamma^{\star\beta} \wedge H^{\star\gamma},$ | $\check{\mathscr{J}}_{\alpha}^{\star} := dH_{\alpha}^{\star} \cong \tau_{\alpha}^{\star} + E_{\alpha}^{\star} - (-1)^{s}\eta_{\alpha\beta\gamma}\Gamma^{\star\beta} \wedge H^{\star\gamma},$ |
| mielke-geometrodynamics_EQ1086 (A.12) | 366 | 0.982 | `\begin{aligned} & \mathrm{C}(1,1)=\mathrm{C}(2,0)= \mathrm{GL}(2, \mathbb{R}), \\ & \mathrm{C}(0,2)= \mathbb{H} \quad \text { (field of quaternions) }, \end{aligned}` | $\begin{aligned} &\mathrm{C}(1,1) = \mathrm{C}(2,0) = \mathrm{GL}(2,\mathbb{R}), \\ &\mathrm{C}(0,2) = \mathbb{H} \quad \text{(field of quaternions)}, \end{aligned}$ | $\begin{aligned} &\mathrm{C}(1,1) = \mathrm{C}(2,0) = \mathrm{GL}(2,\mathbb{R}), \\ &\mathrm{C}(0,2) = \mathbb{H} \quad \text{(field of quaternions)}, \end{aligned}$ |
| mielke-geometrodynamics_EQ0229 (4.2.22) | 88 | 0.982 | `\Theta:=D \vartheta=d \vartheta-\left[\omega^{ \mathrm{L}}, \vartheta\right]` | $\Theta := D\vartheta = d\vartheta - \left[\omega^{\mathrm{L}}, \vartheta\right]$ | $\Theta := D\vartheta = d\vartheta - [\omega^{\mathrm{L}}, \vartheta]$ |
| mielke-geometrodynamics_EQ0836 (12.2.4) | 271 | 0.983 | `\mathscr{A}:=\frac{1}{4}{ }^{*} \operatorname{Tr}(\gamma \wedge D \gamma)={ }^{*}\left(\vartheta^{\alpha} \wedge T_{\alpha}\right)=\frac{1}{2} T^{[\alpha \beta \gamma]} \eta_{\alpha \beta \gamma}=\mathscr{A}_{i} d x^{i},` | $\mathscr{A} := \frac{1}{4}{}^{*}\mathrm{Tr}(\gamma \wedge D\gamma) = {}^{*}(\vartheta^{\alpha} \wedge T_{\alpha}) = \frac{1}{2}T^{[\alpha\beta\gamma]}\eta_{\alpha\beta\gamma} = \mathscr{A}_{i} dx^{i},$ | $\mathscr{A} := \frac{1}{4}{}^{*}Tr(\gamma \wedge D\gamma) = {}^{*}(\vartheta^{\alpha} \wedge T_{\alpha}) = \frac{1}{2}T^{[\alpha\beta\gamma]}\eta_{\alpha\beta\gamma} = \mathscr{A}_{i}\, dx^{i},$ |
| mielke-geometrodynamics_EQ0511 (7.7.29) | 165 | 0.983 | `\begin{aligned} \Theta:=D \gamma=d \gamma+[\Gamma, \gamma] & =\left(d \vartheta^{\alpha}+\Gamma_{\beta}^{ \alpha} \wedge \vartheta^{\beta}\right) \gamma_{\alpha} \\ & =T^{\alpha} \gamma_{\alpha}=\frac{1}{2} T_{i j}^{\alpha} \gamma_{\alpha} d x^{i} \wedge d x^{j} \end{aligned}` | $\begin{aligned} \Theta := D\gamma = d\gamma + [\Gamma,\gamma] &= \left(d\vartheta^{\alpha} + \Gamma_{\beta}^{\alpha} \wedge \vartheta^{\beta}\right)\gamma_{\alpha} \\ &= T^{\alpha}\gamma_{\alpha} = \frac{1}{2}T_{ij}^{\alpha}\gamma_{\alpha} dx^{i} \wedge dx^{j} \end{aligned}$ | $\begin{aligned} \Theta := D\gamma = d\gamma + [\Gamma,\gamma] &= (d\vartheta^{\alpha} + \Gamma_{\beta}{}^{\alpha} \wedge \vartheta^{\beta})\gamma_{\alpha} \\ &= T^{\alpha}\gamma_{\alpha} = \frac{1}{2}T_{ij}{}^{\alpha}\gamma_{\alpha}\, dx^{i} \wedge dx^{j}, \end{aligned}$ |
| mielke-geometrodynamics_EQ0637 (10.2.8) | 212 | 0.983 | `\Gamma_{\alpha}^{\star}=\Gamma_{\alpha}^{\{ \} \star}-K_{ \alpha}^{\star}` | $\Gamma_{\alpha}^{\star} = \Gamma_{\alpha}^{\{\}\star} - K_{\alpha}^{\star}$ | $\Gamma_{\alpha}^{\star} = \Gamma_{\alpha}^{\{\}\star} - K_{\alpha}^{\star}$ |

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| mielke-geometrodynamics_EQ0271 (4.3.36) | 96 | 0.983 | `\left[D_{\alpha}, D_{\beta}\right]=R_{\alpha \beta}^{. . c d} L_{c d}-T_{\alpha \beta}^{. . c} D_{c},` | $[D_\alpha, D_\beta] = R_{\alpha\beta}^{..cd} L_{cd} - T_{\alpha\beta}^{..c} D_c,$ | $[D_\alpha, D_\beta] = R_{\alpha\beta}^{..cd} L_{cd} - T_{\alpha\beta}^{..c} D_c,$ |
| mielke-geometrodynamics_EQ0561 (8.5.4) | 181 | 0.984 | `{ }^{*} \sigma^{(\star)}=(-1)^{\mathrm{sig}} \sigma,` | ${}^*\sigma^{(\star)} = (-1)^{\mathrm{sig}} \sigma,$ | ${}^*\sigma^{(\star)} = (-1)^{\mathrm{sig}} \sigma\ ,$ |
| mielke-geometrodynamics_EQ0097 (3.2.7) | 56 | 0.985 | `D \rightarrow{ }^{G^{-1}} D=G^{-1} D G .` | $D \rightarrow {}^{G^{-1}} D = G^{-1} D G.$ | $D \rightarrow {}^{G^{-1}} D = G^{-1} D\, G.$ |
| mielke-geometrodynamics_EQ0459 (7.2.11) | 152 | 0.985 | `\Omega_{\mathrm{C}}=\stackrel{(+)}{\Omega}_{\mathrm{C}}+ \stackrel{(-)}{\Omega}_{\mathrm{C}}, \quad \stackrel{( \pm)}{\Omega}_{\mathrm{C}}:=\frac{1}{2}\left(\Omega_{ \mathrm{C}} \pm \Omega_{\mathrm{C}}^{(*)}\right)` | $\Omega_{\mathrm{C}} = \overset{(+)}{\Omega}_{\mathrm{C}} + \overset{(-)}{\Omega}_{\mathrm{C}}, \quad \overset{(\pm)}{\Omega}_{\mathrm{C}} := \frac{1}{2}\left(\Omega_{\mathrm{C}} \pm \Omega_{\mathrm{C}}^{(*)}\right)$ | $\Omega_{\mathrm{C}} = \overset{(+)}{\Omega}_{\mathrm{C}} + \overset{(-)}{\Omega}_{\mathrm{C}}, \quad \overset{(\pm)}{\Omega}_{\mathrm{C}} := \frac{1}{2}\left(\Omega_{\mathrm{C}} \pm \Omega_{\mathrm{C}}^{(*)}\right)$ |
| mielke-geometrodynamics_EQ1051 (15.2.8) | 344 | 0.985 | `\begin{aligned} A_{i} & =\frac{1}{2}\left\{A_{i}^{(f) j}+{ }^{*} A_{i}^{(f) j} \gamma^{5}\right\} \lambda_{j}^{(f)} \\ & \oplus \frac{1}{2}\left \{A_{i}^{(c) j}+{ }^{*} A_{i}^{(c) j} \gamma^{5}\right\} \lambda_{j}^{(c)}, \end{aligned}` | $\begin{aligned} A_i &= \frac{1}{2}\left\{A_i^{(f)j} + {}^*A_i^{(f)j}\gamma^5\right\}\lambda_j^{(f)} \\ &\oplus \frac{1}{2}\left\{A_i^{(c)j} + {}^*A_i^{(c)j}\gamma^5\right\}\lambda_j^{(c)}, \end{aligned}$ | $\begin{aligned} A_i &= \frac{1}{2}\left\{A_i^{(f)j} + {}^*A_i^{(f)j}\gamma^5\right\}\lambda_j^{(f)} \\ &\oplus \frac{1}{2}\left\{A_i^{(c)j} + {}^*A_i^{(c)j}\gamma^5\right\}\lambda_j^{(c)}, \end{aligned}$ |
| mielke-geometrodynamics_EQ1096 (B.6) | 369 | 0.985 | `d d \alpha^{(p)} \equiv 0 .` | $dd\alpha^{(p)} \equiv 0.$ | $d\, d\alpha^{(p)} \equiv 0.$ |
| mielke-geometrodynamics_EQ0191 (4.1.1) | 81 | 0.985 | `x \rightarrow x^{\prime}=g x+\mathrm{a}, \quad g \in G L(n, \mathbb{R}), a \in \mathbb{R}^{n} .` | $x \rightarrow x' = gx + \mathrm{a}, \quad g \in GL(n,\mathbb{R}), a \in \mathbb{R}^n.$ | $x \rightarrow x' = gx + \mathrm{a}, \quad g \in GL(n,\mathbb{R}),\ a \in \mathbb{R}^n.$ |
| mielke-geometrodynamics_EQ0694 (10.5.5) | 224 | 0.985 | `\begin{aligned} L_{\mathrm{D}} & =\frac{i}{2}\left(\bar{ \psi}^{*} \gamma \wedge D \psi+D \bar{\psi} \wedge^{*} \gamma \psi\right)-m \bar{\psi} \psi \eta \\ & =\bar{ \psi}\left(i^{*} \gamma \wedge D-m \eta\right) \psi+d \left(\frac{i}{2} \bar{\psi}^{*} \gamma \psi\right), \end{aligned}` | $\begin{aligned} L_{\mathrm{D}} &= \frac{i}{2}\left(\bar{\psi}\,{}^*\gamma \wedge D\psi + D\bar{\psi} \wedge {}^*\gamma\,\psi\right) - m\bar{\psi}\psi\eta \\ &= \bar{\psi}\left(i^*\gamma \wedge D - m\eta\right)\psi + d\left(\frac{i}{2}\bar{\psi}\,{}^*\gamma\psi\right), \end{aligned}$ | $\begin{aligned} L_{\mathrm{D}} &= \frac{i}{2}\left(\bar{\psi}\,{}^*\gamma \wedge D\psi + D\bar{\psi} \wedge {}^*\gamma\,\psi\right) - m\bar{\psi}\psi\eta \\ &= \bar{\psi}\left(i^*\gamma \wedge D - m\eta\right)\psi + d\left(\frac{i}{2}\bar{\psi}\,{}^*\gamma\psi\right), \end{aligned}$ |
| mielke-geometrodynamics_EQ0554 (8.4.8) | 180 | 0.986 | `D^{*} \stackrel{ \pm}{\Omega}^{g}=0` | $D^* \overset{\pm}{\Omega}^g = 0$ | $D\,{}^*\overset{\pm}{\Omega}^g = 0$ |
| mielke-geometrodynamics_EQ0058 (2.7.8) | 45 | 0.987 | `b \rightarrow^{G} b:=G b \quad \in C^{\infty}\left(V^{ \rho}\right) .` | $b \rightarrow {}^G b := Gb \quad \in C^\infty(V^\rho).$ | $b \rightarrow {}^G b := Gb \quad \in C^\infty(V^\rho).$ |
| mielke-geometrodynamics_EQ0285 (4.4.14) | 99 | 0.987 | `D\left(\vartheta \wedge^{*} \Omega^{g}\right)=\Theta \wedge^{*} \Omega^{g}` | $D(\vartheta \wedge^* \Omega^g) = \Theta \wedge^* \Omega^g$ | $D(\vartheta \wedge {}^*\Omega^g) = \Theta \wedge {}^*\Omega^g$ |
| mielke-geometrodynamics_EQ0834 (12.2.2) | 271 | 0.988 | `i^{*} \gamma \wedge\left(\mathscr{D}+\frac{i}{4} m \gamma-\frac{1}{2} T\right) \psi=0,` | $i^*\gamma \wedge \left(\mathscr{D} + \frac{i}{4} m\gamma - \frac{1}{2}T\right)\psi = 0,$ | $i\,{}^*\gamma \wedge \left(\mathscr{D} + \frac{i}{4} m\gamma - \frac{1}{2}T\right)\psi = 0\,,$ |
| mielke-geometrodynamics_EQ0002 (2.1.1) | 31 | 0.989 | `x_{2} \circ \stackrel{-1}{x}_{1}: \mathbb{R} \rightarrow \mathbb{R}` | $x_2 \circ \overset{-1}{x}_1 : \mathbb{R} \rightarrow \mathbb{R}$ | $x_2 \circ \overset{-1}{x}_1 : \mathbb{R} \rightarrow \mathbb{R}$ |
| mielke-geometrodynamics_EQ0339 (5.3.16) | 114 | 0.989 | `L_{\mathrm{EC}}:=-\frac{1}{2 \kappa} R^{\alpha \beta} \wedge \eta_{\alpha \beta}=L_{\mathrm{HE}}+\frac{1}{12 \kappa} \mathscr{A}^{*} \mathscr{A}` | $L_{\mathrm{EC}} := -\frac{1}{2\kappa} R^{\alpha\beta} \wedge \eta_{\alpha\beta} = L_{\mathrm{HE}} + \frac{1}{12\kappa}\mathscr{A}^*\mathscr{A}$ | $L_{\mathrm{EC}} := -\frac{1}{2\kappa} R^{\alpha\beta} \wedge \eta_{\alpha\beta} = L_{\mathrm{HE}} + \frac{1}{12\kappa}\mathscr{A} \wedge {}^*\mathscr{A}$ |
| mielke-geometrodynamics_EQ0024 (2.4.6) | 39 | 0.990 | `\left[L_{i}, L_{j}\right]=c_{i j}{ }^{k} L_{k} .` | $[L_i, L_j] = c_{ij}{}^k L_k.$ | $[L_i, L_j] = c_{ij}{}^k L_k.$ |
| mielke-geometrodynamics_EQ0507 (7.7.25) | 164 | 0.990 | `\sigma_{ \pm}:=\left(\sigma \pm i^{*} \sigma\right) / 2= \frac{1}{2}\left(1 \mp \gamma_{5}\right) \sigma, \quad \text { with } \quad i^{*} \sigma_{ \pm}= \pm \sigma_{ \pm}` | $\sigma_\pm := (\sigma \pm i^*\sigma)/2 = \frac{1}{2}(1 \mp \gamma_5)\,\sigma, \quad \text{with} \quad i^*\sigma_\pm = \pm\sigma_\pm$ | $\sigma_\pm := (\sigma \pm i\,{}^*\sigma)/2 = \frac{1}{2}(1 \mp \gamma_5)\,\sigma, \quad \text{with} \quad i\,{}^*\sigma_\pm = \pm\sigma_\pm$ |

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| mielke-geometrodynamics_EQ0572 (8.6.10) | 184 | 0.990 | `\begin{aligned} H_{\alpha}(* *) & =\frac{\theta_{ \mathrm{T}}^{*}}{2 \ell^{2}} K^{\beta \gamma} \wedge \eta_{\alpha \beta \gamma}-\frac{\theta_{\mathrm{T}}}{ \ell^{2}} T_{\alpha}=\frac{1}{\ell^{2}}\left[\theta_{ \mathrm{T}}^{*} K_{\alpha}^{(\star)}-\theta_{\mathrm{T}} T_{\alpha}\right] \\ & \left.\left.=\frac{\theta_{ \mathrm{T}}^{*}}{\ell^{2}} *\left[T_{\alpha}-\vartheta_{ \alpha} \wedge\left(e_{\beta}\right\rfloor T^{\beta} \right)-\frac{1}{2} e_{\alpha}\right\rfloor\left(T^{ \beta} \wedge \vartheta_{\beta}\right)\right]-\frac{ \theta_{\mathrm{T}}}{\ell^{2}} T_{\alpha} \\ & \simeq- \partial L_{\theta} / \partial T^{\alpha} . \end{aligned}` | $\begin{aligned} H_{\alpha}(* *) & =\frac{\theta_{ \mathrm{T}}^{*}}{2 \ell^{2}} K^{\beta \gamma} \wedge \eta_{\alpha \beta \gamma}-\frac{\theta_{\mathrm{T}}}{ \ell^{2}} T_{\alpha}=\frac{1}{\ell^{2}}\left[\theta_{ \mathrm{T}}^{*} K_{\alpha}^{(\star)}-\theta_{\mathrm{T}} T_{\alpha}\right] \\ & \left.\left.=\frac{\theta_{ \mathrm{T}}^{*}}{\ell^{2}} *\left[T_{\alpha}-\vartheta_{ \alpha} \wedge\left(e_{\beta}\right\rfloor T^{\beta} \right)-\frac{1}{2} e_{\alpha}\right\rfloor\left(T^{ \beta} \wedge \vartheta_{\beta}\right)\right]-\frac{ \theta_{\mathrm{T}}}{\ell^{2}} T_{\alpha} \\ & \simeq- \partial L_{\theta} / \partial T^{\alpha} . \end{aligned}$ | $\begin{aligned} H_{\alpha}(* *) & =\frac{\theta_{ \mathrm{T}}^{*}}{2 \ell^{2}} K^{\beta \gamma} \wedge \eta_{\alpha \beta \gamma}-\frac{\theta_{\mathrm{T}}}{ \ell^{2}} T_{\alpha}=\frac{1}{\ell^{2}}\left[\theta_{ \mathrm{T}}^{*} K_{\alpha}^{(\star)}-\theta_{\mathrm{T}} T_{\alpha}\right] \\ & \left.\left.=\frac{\theta_{ \mathrm{T}}^{*}}{\ell^{2}} *\left[T_{\alpha}-\vartheta_{ \alpha} \wedge\left(e_{\beta}\right\rfloor T^{\beta} \right)-\frac{1}{2} e_{\alpha}\right\rfloor\left(T^{ \beta} \wedge \vartheta_{\beta}\right)\right]-\frac{ \theta_{\mathrm{T}}}{\ell^{2}} T_{\alpha} \\ & \simeq- \partial L_{\theta} / \partial T^{\alpha} . \end{aligned}$ |
| mielke-geometrodynamics_EQ0110 (3.3.11) | 58 | 0.990 | `\begin{aligned} F:= & E \wedge d t+B \\ = & \left(E_{x} d x+E_{y} d y+E_{z} d z\right) \wedge d t \\ & +B_{x} d y \wedge d z+B_{y} d z \wedge d x+B_{z} d x \wedge d y . \end{aligned}` | $\begin{aligned} F:= & E \wedge d t+B \\ = & \left(E_{x} d x+E_{y} d y+E_{z} d z\right) \wedge d t \\ & +B_{x} d y \wedge d z+B_{y} d z \wedge d x+B_{z} d x \wedge d y . \end{aligned}$ | $\begin{aligned} F:= & E \wedge d t+B \\ = & \left(E_{x} d x+E_{y} d y+E_{z} d z\right) \wedge d t \\ & +B_{x} d y \wedge d z+B_{y} d z \wedge d x+B_{z} d x \wedge d y . \end{aligned}$ |
| mielke-geometrodynamics_EQ0142 (3.4.13) | 64 | 0.990 | `\begin{aligned} D \tau & =D D \Pi^{\Omega}=\left[\Omega, \Pi^{\Omega}\right] \\ & =\frac{2}{\alpha_{g}}\left\{ \left[\Omega,{ }^{*} \Omega\right] \frac{\partial L}{ \partial \mathscr{F}}+(-1)^{s}[\Omega, \Omega] \frac{ \partial L}{\partial^{*} \mathscr{F}}\right\}=0 . \end{aligned}` | $\begin{aligned} D \tau & =D D \Pi^{\Omega}=\left[\Omega, \Pi^{\Omega}\right] \\ & =\frac{2}{\alpha_{g}}\left\{ \left[\Omega,{ }^{*} \Omega\right] \frac{\partial L}{ \partial \mathscr{F}}+(-1)^{s}[\Omega, \Omega] \frac{ \partial L}{\partial^{*} \mathscr{F}}\right\}=0 . \end{aligned}$ | $\begin{aligned} D \tau & =D D \Pi^{\Omega}=\left[\Omega, \Pi^{\Omega}\right] \\ & =\frac{2}{\alpha_{g}}\left\{ \left[\Omega,{ }^{*} \Omega\right] \frac{\partial L}{ \partial \mathscr{F}}+(-1)^{s}[\Omega, \Omega] \frac{ \partial L}{\partial^{*} \mathscr{F}}\right\}=0 . \end{aligned}$ |
| mielke-geometrodynamics_EQ0155 (3.5.3) | 67 | 0.990 | `\stackrel{*}{\sigma} \Omega=\frac{1}{4} F_{\alpha \beta \mu \nu} \sigma^{\mu \nu} \otimes \vartheta^{\alpha} \wedge \vartheta^{\beta}` | $\overset{*}{\sigma}\, \Omega=\frac{1}{4} F_{\alpha \beta \mu \nu} \sigma^{\mu \nu} \otimes \vartheta^{\alpha} \wedge \vartheta^{\beta}$ | $\overset{*}{\sigma}\, \Omega=\frac{1}{4} F_{\alpha \beta \mu \nu} \sigma^{\mu \nu} \otimes \vartheta^{\alpha} \wedge \vartheta^{\beta}$ |
| mielke-geometrodynamics_EQ0682 (10.3.40) | 221 | 0.990 | `\theta_{\mathrm{L}} C_{\mathrm{L}}-\tilde{\theta}_{ \mathrm{L}} \widetilde{C}_{\mathrm{L}}=L_{\mathrm{MB}}+ \frac{\Delta \theta_{\mathrm{TL}}}{\ell} d\left(\Gamma^{ \star \alpha} \wedge \vartheta_{\alpha}\right),` | $\theta_{\mathrm{L}} C_{\mathrm{L}}-\tilde{\theta}_{\mathrm{L}} \widetilde{C}_{\mathrm{L}}=L_{\mathrm{MB}}+ \frac{\Delta \theta_{\mathrm{TL}}}{\ell} d\left(\Gamma^{ \star \alpha} \wedge \vartheta_{\alpha}\right),$ | $\theta_{\mathrm{L}} C_{\mathrm{L}}-\tilde{\theta}_{\mathrm{L}} \widetilde{C}_{\mathrm{L}}=L_{\mathrm{MB}}+ \frac{\Delta \theta_{\mathrm{TL}}}{\ell} d\left(\Gamma^{ \star \alpha} \wedge \vartheta_{\alpha}\right),$ |
| mielke-geometrodynamics_EQ0874 (13.3.2) | 284 | 0.990 | `\left[Z^{A}{ }_{B}, Z^{C}{ }_{D}\right]=\delta_{D}^{A} Z^{C}{ }_{B}-\delta_{B}^{C} Z^{A}{ }_{D}` | $\left[Z^{A}{}_{B}, Z^{C}{}_{D}\right]=\delta_{D}^{A} Z^{C}{}_{B}-\delta_{B}^{C} Z^{A}{}_{D}$ | $\left[Z^{A}{}_{B}, Z^{C}{}_{D}\right]=\delta_{D}^{A} Z^{C}{}_{B}-\delta_{B}^{C} Z^{A}{}_{D}$ |
| mielke-geometrodynamics_EQ0042 (2.6.5) | 42 | 0.991 | `F_{\alpha \beta}{ }^{j}=\partial_{\alpha} \Gamma_{\beta}{ }^{j}-\partial_{\beta} \Gamma_{\alpha}{ }^{j}-c_{k l}{ }^{j} \Gamma_{\alpha}{ }^{k} \Gamma_{\beta}{ }^{l},` | $F_{\alpha \beta}{}^{j}=\partial_{\alpha} \Gamma_{\beta}{}^{j}-\partial_{\beta} \Gamma_{\alpha}{}^{j}-c_{k l}{}^{j} \Gamma_{\alpha}{}^{k} \Gamma_{\beta}{}^{l},$ | $F_{\alpha \beta}{}^{j}=\partial_{\alpha} \Gamma_{\beta}{}^{j}-\partial_{\beta} \Gamma_{\alpha}{}^{j}-c_{k l}{}^{j} \Gamma_{\alpha}{}^{k} \Gamma_{\beta}{}^{l},$ |
| mielke-geometrodynamics_EQ0233 (4.2.26) | 88 | 0.991 | `\Omega^{\mathrm{T}}=f \Theta+d f \wedge \vartheta- \Omega^{\mathrm{L}} \otimes \widetilde{\widetilde{ \varphi}}` | $\Omega^{\mathrm{T}}=f \Theta+d f \wedge \vartheta- \Omega^{\mathrm{L}} \otimes \widetilde{\widetilde{ \varphi}}$ | $\Omega^{\mathrm{T}}=f \Theta+d f \wedge \vartheta- \Omega^{\mathrm{L}} \otimes \widetilde{\widetilde{ \varphi}}$ |
| mielke-geometrodynamics_EQ0778 | 246 | 0.991 | `\langle-\infty\| D \tau_{A}\|\infty\rangle^{ \stackrel{(+)}{-}}=\frac{1}{(4 .) 8 \pi^{2}} \operatorname{Tr}\left(\Omega^{g} \wedge \Omega^{g(*)} \right) .` | $\langle-\infty\| D \tau_{A}\|\infty\rangle^{ \stackrel{(+)}{-}}=\frac{1}{(4 .) 8 \pi^{2}} \operatorname{Tr}\left(\Omega^{g} \wedge \Omega^{g(*)} \right) .$ | $\langle-\infty\| D \tau_{A}\|\infty\rangle^{ \stackrel{(+)}{-}}=\frac{1}{(4 .) 8 \pi^{2}} \operatorname{Tr}\left(\Omega^{g} \wedge \Omega^{g(*)} \right) .$ |
| mielke-geometrodynamics_EQ0644 (10.3.1) | 214 | 0.991 | `\widetilde{\Gamma}_{\alpha}^{\star}=\Gamma_{\alpha}^{ \star}-(-1)^{s} \frac{\varepsilon}{2 \ell} \vartheta_{ \alpha},` | $\widetilde{\Gamma}_{\alpha}^{\star}=\Gamma_{\alpha}^{\star}-(-1)^{s} \frac{\varepsilon}{2 \ell} \vartheta_{\alpha},$ | $\widetilde{\Gamma}_{\alpha}^{\star}=\Gamma_{\alpha}^{\star}-(-1)^{s} \frac{\varepsilon}{2 \ell} \vartheta_{\alpha},$ |

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| mielke-geometrodynamics_EQ0149 (3.4.20) | 65 | 0.992 | L\left(\mathscr{F},{ }^{*} \mathscr{F}\right)=-\mathscr{F} . | $L\left(\mathscr{F},{}^{*}\mathscr{F}\right)=-\mathscr{F}.$ | $L(\mathscr{F},{}^{*}\mathscr{F})=-\mathscr{F}.$ |
| mielke-geometrodynamics_EQ0368 (6.2.19) | 127 | 0.992 | \stackrel{( \pm)}{L}_{\\|}:=L_{\\|} \pm i \frac{2 \ell^{2}}{\kappa} d C_{\mathrm{TT}}=L_{\mathrm{HE}}-L_{\mathrm{EC}} \pm i \frac{2 \ell^{2}}{\kappa} d \stackrel{(\mp)}{C}_{\mathrm{TT}} . | $\overset{(\pm)}{L}_{\parallel}:=L_{\parallel} \pm i \frac{2 \ell^{2}}{\kappa} d C_{\mathrm{TT}}=L_{\mathrm{HE}}-L_{\mathrm{EC}} \pm i \frac{2 \ell^{2}}{\kappa} d \overset{(\mp)}{C}_{\mathrm{TT}} .$ | $\overset{(\pm)}{L}_{\parallel}:=L_{\parallel} \pm i \frac{2 \ell^{2}}{\kappa} d C_{\mathrm{TT}}=L_{\mathrm{HE}}-L_{\mathrm{EC}} \pm i \frac{2 \ell^{2}}{\kappa} d \overset{(\mp)}{C}_{\mathrm{TT}}.$ |
| mielke-geometrodynamics_EQ0449 (7.2.2) | 151 | 0.992 | { }^{*} \Omega^{g(\star)}:=\frac{1}{4}{ }^{*} R_{\alpha \beta}^{(\star) c d} L_{c d} \otimes \vartheta^{\alpha} \wedge \vartheta^{\beta}, | ${}^{*}\Omega^{g(\star)}:=\frac{1}{4}{}^{*}R_{\alpha \beta}^{(\star) c d} L_{c d} \otimes \vartheta^{\alpha} \wedge \vartheta^{\beta},$ | ${}^{*}\Omega^{g(\star)}:=\frac{1}{4}{}^{*}R_{\alpha \beta}^{(\star) c d} L_{c d} \otimes \vartheta^{\alpha} \wedge \vartheta^{\beta},$ |
| mielke-geometrodynamics_EQ1050 (15.2.7) | 344 | 0.992 | \left\{\bar{L}_{j}=\sigma^{\alpha \beta} \otimes \lambda_{i}, \quad \lambda_{i}, \quad i \gamma^{5} \lambda_{i} \mid j=1, \ldots 8 N^{2}-1\right\}, | $\left\{\bar{L}_{j}=\sigma^{\alpha \beta} \otimes \lambda_{i}, \quad \lambda_{i}, \quad i \gamma^{5} \lambda_{i} \mid j=1, \ldots 8 N^{2}-1\right\},$ | $\left\{\bar{L}_{j}=\sigma^{\alpha \beta} \otimes \lambda_{i}, \quad \lambda_{i}, \quad i \gamma^{5} \lambda_{i} \mid j=1, \ldots 8 N^{2}-1\right\},$ |
| mielke-geometrodynamics_EQ0964 (14.2.4) | 313 | 0.992 | \stackrel{\circ}{\omega}=b \stackrel{\circ}{\vartheta} . | $\overset{\circ}{\omega}=b \overset{\circ}{\vartheta} .$ | $\overset{\circ}{\omega}=b \overset{\circ}{\vartheta}.$ |
| mielke-geometrodynamics_EQ0256 (4.3.21) | 93 | 0.992 | R_{\alpha \beta c}^{. . . d}=2\left\{\partial_{[\alpha} \Gamma_{\beta] c}^{. . d}+\Gamma_{[\alpha \mid h}^{. . d} \Gamma_{\mid \beta] c}^{. . h}\right\} | $R_{\alpha \beta c}^{\cdot \cdot \cdot d}=2\left\{\partial_{[\alpha} \Gamma_{\beta] c}^{\cdot \cdot d}+\Gamma_{[\alpha \mid h}^{\cdot \cdot d} \Gamma_{\mid \beta] c}^{\cdot \cdot h}\right\}$ | $R_{\alpha \beta c}^{\cdot \cdot \cdot d}=2\left\{\partial_{[\alpha} \Gamma_{\beta] c}^{\cdot \cdot d}+\Gamma_{[\alpha \mid h}^{\cdot \cdot d} \Gamma_{\mid \beta] c}^{\cdot \cdot h}\right\}$ |
| mielke-geometrodynamics_EQ0245 (4.3.10) | 91 | 0.992 | \vartheta \wedge^{*} \vartheta=\eta . | $\vartheta \wedge^{*} \vartheta=\eta.$ | $\vartheta \wedge {}^{*}\vartheta=\eta.$ |
| mielke-geometrodynamics_EQ0633 (10.2.4) | 212 | 0.992 | -(-1)^{s} \theta_{\mathrm{TL}} T_{\alpha}-\frac{1}{2 \ell} \theta_{\mathrm{T}} \eta_{\alpha}-\theta_{\mathrm{L}} \ell R_{\alpha}^{\star}=\ell \tau_{\alpha}^{\star} ; | $-(-1)^{s} \theta_{\mathrm{TL}} T_{\alpha}-\frac{1}{2 \ell} \theta_{\mathrm{T}} \eta_{\alpha}-\theta_{\mathrm{L}} \ell R_{\alpha}^{\star}=\ell \tau_{\alpha}^{\star} ;$ | $-(-1)^{s} \theta_{\mathrm{TL}} T_{\alpha}-\frac{1}{2 \ell} \theta_{\mathrm{T}} \eta_{\alpha}-\theta_{\mathrm{L}} \ell R_{\alpha}^{\star}=\ell \tau_{\alpha}^{\star} ;$ |
| mielke-geometrodynamics_EQ0701 (10.5.12) | 225 | 0.992 | \hat{D}^{*} \hat{D} \psi-m^{2} \eta \psi+i^{*} \sigma \wedge\left(\hat{R}+T^{\alpha} \hat{D}_{\alpha}\right) \psi=0, | $\hat{D}^{*} \hat{D} \psi-m^{2} \eta \psi+i^{*} \sigma \wedge\left(\hat{R}+T^{\alpha} \hat{D}_{\alpha}\right) \psi=0,$ | $\hat{D}^{*} \hat{D} \psi-m^{2} \eta \psi+i^{*} \sigma \wedge\left(\hat{R}+T^{\alpha} \hat{D}_{\alpha}\right) \psi=0,$ |
| mielke-geometrodynamics_EQ0847 (12.2.15) | 273 | 0.992 | \mathscr{A}_{\alpha} \mathscr{A}^{\alpha} \eta= \mathscr{A} \wedge{ }^{*} \mathscr{A} \cong\left(\ell^{4} / 4\right)^{*} j_{5} \wedge j_{5}=0 . | $\mathscr{A}_{\alpha} \mathscr{A}^{\alpha} \eta=\mathscr{A} \wedge{}^{*} \mathscr{A} \cong\left(\ell^{4} / 4\right)^{*} j_{5} \wedge j_{5}=0.$ | $\mathscr{A}_{\alpha} \mathscr{A}^{\alpha} \eta=\mathscr{A} \wedge{}^{*} \mathscr{A} \cong\left(\ell^{4} / 4\right)^{*} j_{5} \wedge j_{5}=0.$ |
| mielke-geometrodynamics_EQ0388 (6.4.3) | 130 | 0.993 | \left.\underline{\Psi}:=n\rfloor(d t \wedge \Psi)= \left(1-{ }^{\perp}\right) \Psi, \quad n\right\rfloor \underline{\Psi} \equiv 0 . | $\underline{\Psi}:=n\rfloor(dt \wedge \Psi)=\left(1-{}^{\perp}\right) \Psi, \quad n\rfloor \underline{\Psi} \equiv 0.$ | $\underline{\Psi}:=n\rfloor(dt \wedge \Psi)=\left(1-{}^{\perp}\right) \Psi, \quad n\rfloor \underline{\Psi} \equiv 0.$ |
| mielke-geometrodynamics_EQ0228 (4.2.21) | 88 | 0.993 | \widetilde{\widetilde{\vartheta}}=f \vartheta . | $\widetilde{\widetilde{\vartheta}}=f \vartheta.$ | $\widetilde{\widetilde{\vartheta}}=f \vartheta.$ |
| mielke-geometrodynamics_EQ0287 (4.4.16) | 99 | 0.993 | D D \Pi^{\mathrm{L}}+D \Pi_{[]}^{\mathrm{T}}=D \tau_{s} . | $D D \Pi^{\mathrm{L}}+D \Pi_{[]}^{\mathrm{T}}=D \tau_{s}.$ | $D D \Pi^{\mathrm{L}}+D \Pi_{[]}^{\mathrm{T}}=D \tau_{s}.$ |
| mielke-geometrodynamics_EQ0320 (5.2.4) | 111 | 0.993 | \mathscr{A}:=\frac{1}{4}{ }^{*} \operatorname{Tr}(\gamma \wedge D \gamma)={ }^{*}\left(\vartheta^{\alpha} \wedge T_{\alpha}\right)=\frac{1}{2} T^{[\alpha \beta \gamma]} \eta_{\alpha \beta \gamma}=\mathscr{A}_{i} d x^{i}, | $\mathscr{A}:=\frac{1}{4}{}^{*} \operatorname{Tr}(\gamma \wedge D \gamma)={}^{*}\left(\vartheta^{\alpha} \wedge T_{\alpha}\right)=\frac{1}{2} T^{[\alpha \beta \gamma]} \eta_{\alpha \beta \gamma}=\mathscr{A}_{i} d x^{i},$ | $\mathscr{A}:=\frac{1}{4}{}^{*} \operatorname{Tr}(\gamma \wedge D \gamma)={}^{*}\left(\vartheta^{\alpha} \wedge T_{\alpha}\right)=\frac{1}{2} T^{[\alpha \beta \gamma]} \eta_{\alpha \beta \gamma}=\mathscr{A}_{i} d x^{i},$ |
| mielke-geometrodynamics_EQ0100 (3.3.1) | 56 | 0.994 | F:=d A=\frac{1}{2} F_{i j} d x^{i} \wedge d x^{j} . | $F:=d A=\frac{1}{2} F_{i j} d x^{i} \wedge d x^{j} .$ | $F:=d A=\frac{1}{2} F_{i j} d x^{i} \wedge d x^{j} .$ |

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| mielke-geometrodynamics_EQ1102 (B.14) | 370 | 0.994 | `\begin{aligned} d_{\mu}(M) & :={ }^{*} 1=\sqrt{\left\|\operatorname{det} g_{\alpha \beta}\right\|} \vartheta^{1} \wedge \cdots \wedge \vartheta^{n}=\eta \\ & =\sqrt{\left\|\operatorname{det} g_{i j}\right\|} d x^{1} \wedge \cdots \wedge d x^{n}=\frac{1}{n} \vartheta \wedge^{*} \vartheta . \end{aligned}` | $d_\mu(M) := {}^*1 = \sqrt{\lvert\det g_{\alpha\beta}\rvert}\,\vartheta^1 \wedge \cdots \wedge \vartheta^n = \eta$ <br> $= \sqrt{\lvert\det g_{ij}\rvert}\,dx^1 \wedge \cdots \wedge dx^n = \frac{1}{n}\vartheta \wedge^* \vartheta.$ | $d_\mu(M) := {}^*1 = \sqrt{\lvert\det g_{\alpha\beta}\rvert}\,\vartheta^1 \wedge \cdots \wedge \vartheta^n = \eta$ <br> $= \sqrt{\lvert\det g_{ij}\rvert}\,dx^1 \wedge \cdots \wedge dx^n = \frac{1}{n}\vartheta \wedge^* \vartheta.$ |
| mielke-geometrodynamics_EQ0467 (7.3.6) | 154 | 0.994 | `\begin{aligned} L_{\mathrm{SKY}}^{(\star)} & =-\frac{1}{2} R^{\alpha \beta} \wedge{ }^{*} R_{\alpha \beta}-\frac{(-1)^{s}}{2} R^{\alpha \beta} \wedge R_{\alpha \beta}^{(\star)} \\ & =-\frac{1}{4}\left(R_{\alpha \beta}+{ }^{*} R_{\alpha \beta}^{(\star)}\right) \wedge{ }^{*}\left(R^{\alpha \beta}+{ }^{*} R^{\alpha \beta(\star)}\right) \\ & =\frac{1}{2} \operatorname{Tr}\left(\bar{\Omega}^{g} \wedge{ }^{\star} \bar{\Omega}^{g}\right) . \end{aligned}` | $L_{\mathrm{SKY}}^{(\star)} = -\frac{1}{2}R^{\alpha\beta} \wedge {}^*R_{\alpha\beta} - \frac{(-1)^s}{2}R^{\alpha\beta} \wedge R_{\alpha\beta}^{(\star)}$ <br> $= -\frac{1}{4}\left(R_{\alpha\beta} + {}^*R_{\alpha\beta}^{(\star)}\right) \wedge {}^*\left(R^{\alpha\beta} + {}^*R^{\alpha\beta(\star)}\right)$ <br> $= \frac{1}{2}\operatorname{Tr}\left(\bar{\Omega}^g \wedge {}^\star\bar{\Omega}^g\right).$ | $L_{\mathrm{SKY}}^{(\star)} = -\frac{1}{2}R^{\alpha\beta} \wedge {}^*R_{\alpha\beta} - \frac{(-1)^s}{2}R^{\alpha\beta} \wedge R_{\alpha\beta}^{(\star)}$ <br> $= -\frac{1}{4}\left(R_{\alpha\beta} + {}^*R_{\alpha\beta}^{(\star)}\right) \wedge {}^*\left(R^{\alpha\beta} + {}^*R^{\alpha\beta(\star)}\right)$ <br> $= \frac{1}{2}\operatorname{Tr}(\bar{\Omega}^g \wedge {}^\star\bar{\Omega}^g).$ |
| mielke-geometrodynamics_EQ0498 (7.7.16) | 163 | 0.994 | `{ }^{*} \Phi:=\frac{1}{(4-p!) p!} \sqrt{\operatorname{det} g_{i j}} \varepsilon^{i_{1} \cdots i_{p}}{ }_{j_{1} \cdots j_{4-p}} \Phi_{i_{1} \cdots i_{p}} d x^{j_{1}} \wedge \cdots \wedge d x^{j_{4-p}}` | ${}^*\Phi := \frac{1}{(4-p!)p!}\sqrt{\det g_{ij}}\,\varepsilon^{i_1\cdots i_p}{}_{j_1\cdots j_{4-p}}\Phi_{i_1\cdots i_p}dx^{j_1} \wedge \cdots \wedge dx^{j_{4-p}}$ | ${}^*\Phi := \frac{1}{(4-p!)p!}\sqrt{\det g_{ij}}\,\varepsilon^{i_1\cdots i_p}{}_{j_1\cdots j_{4-p}}\Phi_{i_1\cdots i_p}dx^{j_1} \wedge \cdots \wedge dx^{j_{4-p}},$ |
| mielke-geometrodynamics_EQ0724 (10.10.4) | 230 | 0.994 | `\delta_{\mathrm{susy}} L=i \bar{\sigma} \Psi \gamma^{ \alpha} \wedge \frac{\delta L}{\delta \vartheta^{ \alpha}}+\delta_{\mathrm{susy}} \Gamma_{\alpha}^{\star} \wedge \frac{\delta L}{\delta \Gamma_{\alpha}^{\star}}+(2 \overline{D \sigma}+c \bar{\sigma} \gamma) \wedge \frac{ \delta L}{\delta \bar{\Psi}},` | $\delta_{\mathrm{susy}}L = i\bar{\sigma}\Psi\gamma^\alpha \wedge \frac{\delta L}{\delta\vartheta^\alpha} + \delta_{\mathrm{susy}}\Gamma_\alpha^\star \wedge \frac{\delta L}{\delta\Gamma_\alpha^\star} + (2\overline{D\sigma} + c\bar{\sigma}\gamma) \wedge \frac{\delta L}{\delta\bar{\Psi}},$ | $\delta_{\mathrm{susy}}L = i\bar{\sigma}\Psi\gamma^\alpha \wedge \frac{\delta L}{\delta\vartheta^\alpha} + \delta_{\mathrm{susy}}\Gamma_\alpha^\star \wedge \frac{\delta L}{\delta\Gamma_\alpha^\star} + (2\overline{D\sigma} + c\bar{\sigma}\gamma) \wedge \frac{\delta L}{\delta\bar{\Psi}},$ |
| mielke-geometrodynamics_EQ0081 (3.1.6) | 53 | 0.994 | `\begin{aligned} \delta L & =\delta \varphi \wedge^{*} L_{\varphi}+\delta(d \varphi) \wedge \pi \\ & =\delta \varphi \wedge^{*} L_{\varphi}+d(\delta \varphi) \wedge \pi \\ & =\delta \varphi \wedge\left({ }^{*} L_{\varphi}+d \pi\right)+d(\delta \varphi \wedge \pi), \end{aligned}` | $\delta L = \delta\varphi \wedge^* L_\varphi + \delta(d\varphi) \wedge \pi$ <br> $= \delta\varphi \wedge^* L_\varphi + d(\delta\varphi) \wedge \pi$ <br> $= \delta\varphi \wedge ({}^*L_\varphi + d\pi) + d(\delta\varphi \wedge \pi),$ | $\delta L = \delta\varphi \wedge {}^*L_\varphi + \delta(d\varphi) \wedge \pi$ <br> $= \delta\varphi \wedge {}^*L_\varphi + d(\delta\varphi) \wedge \pi$ <br> $= \delta\varphi \wedge ({}^*L_\varphi + d\pi) + d(\delta\varphi \wedge \pi),$ |
| mielke-geometrodynamics_EQ0509 (7.7.27) | 165 | 0.994 | `D=d+[\Gamma, \quad]` | $D = d + [\Gamma, \quad]$ | $D = d + [\Gamma, \quad]$ |
| mielke-geometrodynamics_EQ0387 (6.4.2) | 130 | 0.994 | `\left.{ }^{\perp} \Psi:=d t \wedge \Psi_{\perp} ; \quad \Psi_{\perp}:=n\right\rfloor \Psi,` | ${}^\perp\Psi := dt \wedge \Psi_\perp; \quad \Psi_\perp := n\rfloor\Psi,$ | ${}^\perp\Psi := dt \wedge \Psi_\perp; \qquad \Psi_\perp := n\rfloor\Psi,$ |
| mielke-geometrodynamics_EQ0646 (10.3.3) | 214 | 0.995 | `\Gamma_{\alpha}^{\star}=(-1)^{s} \frac{\varepsilon}{2 \ell} \vartheta_{\alpha},` | $\Gamma_\alpha^\star = (-1)^s\frac{\varepsilon}{2\ell}\vartheta_\alpha,$ | $\Gamma_\alpha^\star = (-1)^s\frac{\varepsilon}{2\ell}\vartheta_\alpha,$ |
| mielke-geometrodynamics_EQ0806 (11.4.18) | 255 | 0.995 | `\overrightarrow{J^{2}} \chi_{\kappa}^{m}=j(j+1) \chi_{ \kappa}^{m}` | $\overrightarrow{J^2}\chi_\kappa^m = j(j+1)\chi_\kappa^m$ | $\overrightarrow{J^2}\chi_\kappa^m = j(j+1)\chi_\kappa^m$ |

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| mielke-geometrodynamics_EQ0995 (14.3.8) | 321 | 0.995 | `L_{\text {anom. }}=\frac{\widehat{\ell}}{2} \bar{\psi} \gamma \wedge \gamma \wedge{ }^{*} \Omega \psi=\frac{ \ell^{*}}{4 \sqrt{\alpha_{g}}} \bar{\psi} F_{\mu \nu} \gamma^{5}\left[\gamma^{\mu}, \gamma^{\nu}\right] \psi \eta .` | $L_{\text {anom. }}=\frac{\widehat{\ell}}{2} \bar{\psi} \gamma \wedge \gamma \wedge{ }^{*} \Omega \psi=\frac{\ell^{*}}{4 \sqrt{\alpha_{g}}} \bar{\psi} F_{\mu \nu} \gamma^{5}\left[\gamma^{\mu}, \gamma^{\nu}\right] \psi \eta .$ | $L_{\text {anom. }}=\frac{\widehat{\ell}}{2} \bar{\psi} \gamma \wedge \gamma \wedge{ }^{*} \Omega \psi=\frac{\ell^{*}}{4 \sqrt{\alpha_{g}}} \bar{\psi} F_{\mu \nu} \gamma^{5}\left[\gamma^{\mu}, \gamma^{\nu}\right] \psi \eta .$ |
| mielke-geometrodynamics_EQ0098 (3.2.8) | 56 | 0.995 | `\Omega \rightarrow{ }^{G^{-1}} \Omega=G^{-1} \Omega G .` | $\Omega \rightarrow{ }^{G^{-1}} \Omega=G^{-1} \Omega G .$ | $\Omega \rightarrow{ }^{G^{-1}} \Omega=G^{-1} \Omega G .$ |
| mielke-geometrodynamics_EQ0930 (14.1.11) | 304 | 0.995 | `\mathrm{R}={ }^{*}\left(\Omega^{g} \wedge \vartheta \wedge \vartheta\right)=0` | $\mathrm{R}={ }^{*}\left(\Omega^{g} \wedge \vartheta \wedge \vartheta\right)=0$ | $\mathrm{R}={ }^{*}\left(\Omega^{g} \wedge \vartheta \wedge \vartheta\right)=0$ |
| mielke-geometrodynamics_EQ1033 (15.1.10) | 338 | 0.995 | `\frac{1}{2}{ }^{*}\left(\vartheta^{f} \wedge^{*} \Omega^{f}\right)+\Lambda_{\mathrm{eff}}^{f} \vartheta^{f}=0` | $\frac{1}{2}{ }^{*}\left(\vartheta^{f} \wedge^{*} \Omega^{f}\right)+\Lambda_{\mathrm{eff}}^{f} \vartheta^{f}=0$ | $\frac{1}{2}{ }^{*}\left(\vartheta^{f} \wedge^{*} \Omega^{f}\right)+\Lambda_{\mathrm{eff}}^{f} \vartheta^{f}=0$ |
| mielke-geometrodynamics_EQ0658 (10.3.15) | 217 | 0.995 | `{ }^{*} D\left(\vartheta^{\alpha} \wedge H_{\alpha} \right)-{ }^{*}\left(T^{\alpha} \wedge H_{\alpha}\right)= \frac{\gamma}{\delta \ell^{2}}{ }^{*}\left(\vartheta^{ \alpha} \wedge T_{\alpha}\right)+\frac{1}{\delta \ell}{ }^{*}\left(\eta^{\alpha} \wedge H_{\alpha}\right) .` | ${ }^{*} D\left(\vartheta^{\alpha} \wedge H_{\alpha}\right)-{ }^{*}\left(T^{\alpha} \wedge H_{\alpha}\right)=\frac{\gamma}{\delta \ell^{2}}{ }^{*}\left(\vartheta^{\alpha} \wedge T_{\alpha}\right)+\frac{1}{\delta \ell}{ }^{*}\left(\eta^{\alpha} \wedge H_{\alpha}\right) .$ | ${ }^{*} D\left(\vartheta^{\alpha} \wedge H_{\alpha}\right)-{ }^{*}\left(T^{\alpha} \wedge H_{\alpha}\right)=\frac{\gamma}{\delta \ell^{2}}{ }^{*}\left(\vartheta^{\alpha} \wedge T_{\alpha}\right)+\frac{1}{\delta \ell}{ }^{*}\left(\eta^{\alpha} \wedge H_{\alpha}\right) .$ |
| mielke-geometrodynamics_EQ0207 (4.1.21) | 83 | 0.995 | `\delta:\left\{\begin{array}{llll} A(n, \mathbb{R}) & \times A(M) & \longrightarrow & A(M) \\ \downarrow & \downarrow & & \downarrow \\ (g, a) & (e(m), x) & =\left( \text { g.e }(m), g^{-1}(x-a)\right) . \end{array}\right.` | $\delta:\left\{\begin{array}{llll} A(n, \mathbb{R}) & \times A(M) & \longrightarrow & A(M) \\ \downarrow & \downarrow & & \downarrow \\ (g, a) & (e(m), x) & =\left( \text { g.e }(m), g^{-1}(x-a)\right) . \end{array}\right.$ | $\delta:\left\{\begin{array}{llll} A(n, \mathbb{R}) & \times A(M) & \longrightarrow & A(M) \\ \downarrow & \downarrow & & \downarrow \\ (g, a) & (e(m), x) & =\left( \text { g.e }(m), g^{-1}(x-a)\right) . \end{array}\right.$ |
| mielke-geometrodynamics_EQ0154 (3.5.2) | 66 | 0.995 | `\stackrel{(-)}{\sigma} \mu \nu:=\left\{\left. \begin{array}{l} \sigma^{i j}=\frac{1}{2} \varepsilon^{i j k} \sigma_{k} \\ \sigma^{i 0}=(-) \frac{1}{2} \sigma^{i} \end{array} \right\rvert\, i, j, k=1,2,3 \right\}` | $\stackrel{(-)}{\sigma} \mu \nu:=\left\{\left. \begin{array}{l} \sigma^{i j}=\frac{1}{2} \varepsilon^{i j k} \sigma_{k} \\ \sigma^{i 0}=(-) \frac{1}{2} \sigma^{i} \end{array} \right\rvert\, i, j, k=1,2,3 \right\}$ | $\stackrel{(-)}{\sigma} \mu \nu:=\left\{\left. \begin{array}{l} \sigma^{i j}=\frac{1}{2} \varepsilon^{i j k} \sigma_{k} \\ \sigma^{i 0}=(-) \frac{1}{2} \sigma^{i} \end{array} \right\rvert\, i, j, k=1,2,3 \right\}$ |
| mielke-geometrodynamics_EQ0928 (14.1.9) | 304 | 0.995 | `\begin{aligned} \Sigma_{\mu \nu}^{\mathrm{YM}} & = \frac{1}{\alpha_{g}} \operatorname{Tr}\left(F_{\mu \alpha} F_{\nu}^{\cdot \alpha}-\frac{1}{4} g_{\mu \nu} F_{\alpha \beta} F^{\alpha \beta}\right) \\ & =\frac{1}{2 \alpha_{g}} \operatorname{Tr}\left(F_{\mu \alpha} F_{ \nu}^{\cdot \alpha}-(-1)^{s}{ }^{*} F_{\mu \alpha}{ }^{*} F_{\nu}^{\cdot \alpha}\right), \end{aligned}` | $\begin{aligned} \Sigma_{\mu \nu}^{\mathrm{YM}} & = \frac{1}{\alpha_{g}} \operatorname{Tr}\left(F_{\mu \alpha} F_{\nu}^{\cdot \alpha}-\frac{1}{4} g_{\mu \nu} F_{\alpha \beta} F^{\alpha \beta}\right) \\ & =\frac{1}{2 \alpha_{g}} \operatorname{Tr}\left(F_{\mu \alpha} F_{ \nu}^{\cdot \alpha}-(-1)^{s}{ }^{*} F_{\mu \alpha}{ }^{*} F_{\nu}^{\cdot \alpha}\right), \end{aligned}$ | $\begin{aligned} \Sigma_{\mu \nu}^{\mathrm{YM}} & = \frac{1}{\alpha_{g}} \operatorname{Tr}\left(F_{\mu \alpha} F_{\nu}^{\cdot \alpha}-\frac{1}{4} g_{\mu \nu} F_{\alpha \beta} F^{\alpha \beta}\right) \\ & =\frac{1}{2 \alpha_{g}} \operatorname{Tr}\left(F_{\mu \alpha} F_{ \nu}^{\cdot \alpha}-(-1)^{s}{ }^{*} F_{\mu \alpha}{ }^{*} F_{\nu}^{\cdot \alpha}\right), \end{aligned}$ |
| mielke-geometrodynamics_EQ0006 (2.2.1) | 33 | 0.996 | `\left.e_{\beta}\right\rfloor \vartheta^{\alpha}=\delta^{ \alpha}{ }_{\beta} .` | $\left.e_{\beta}\right\rfloor \vartheta^{\alpha}=\delta^{ \alpha}{ }_{\beta} .$ | $\left.e_{\beta}\right\rfloor \vartheta^{\alpha}=\delta^{ \alpha}{ }_{\beta} .$ |
| mielke-geometrodynamics_EQ0284 (4.4.13) | 99 | 0.996 | `\begin{aligned} D[\Theta, \vartheta] & =[D \Theta, \vartheta]+[\Theta, D \vartheta] \\ & =\left[\left[ \vartheta, \Omega^{g}\right], \vartheta\right]+[\Theta, \Theta] \\ & =\vartheta \wedge \Omega^{g} \wedge \vartheta-\Omega^{g} \wedge \vartheta \wedge \vartheta+ \vartheta \wedge \vartheta \wedge \Omega^{g}-\vartheta \wedge \Omega^{g} \wedge \vartheta \\ & =\left[\vartheta \wedge \vartheta, \Omega^{g}\right] . \end{aligned}` | $\begin{aligned} D[\Theta, \vartheta] & =[D \Theta, \vartheta]+[\Theta, D \vartheta] \\ & =\left[\left[ \vartheta, \Omega^{g}\right], \vartheta\right]+[\Theta, \Theta] \\ & =\vartheta \wedge \Omega^{g} \wedge \vartheta-\Omega^{g} \wedge \vartheta \wedge \vartheta+ \vartheta \wedge \vartheta \wedge \Omega^{g}-\vartheta \wedge \Omega^{g} \wedge \vartheta \\ & =\left[\vartheta \wedge \vartheta, \Omega^{g}\right] . \end{aligned}$ | $\begin{aligned} D[\Theta, \vartheta] & =[D \Theta, \vartheta]+[\Theta, D \vartheta] \\ & =\left[\left[ \vartheta, \Omega^{g}\right], \vartheta\right]+[\Theta, \Theta] \\ & =\vartheta \wedge \Omega^{g} \wedge \vartheta-\Omega^{g} \wedge \vartheta \wedge \vartheta+ \vartheta \wedge \vartheta \wedge \Omega^{g}-\vartheta \wedge \Omega^{g} \wedge \vartheta \\ & =\left[\vartheta \wedge \vartheta, \Omega^{g}\right] . \end{aligned}$ |

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| mielke-geometrodynamics_EQ0308 (4.5.18) | 103 | 0.996 | C_{\mathrm{AdS}}=\hat{M}^{2}+\frac{\Lambda}{3} \hat{J}^{2} | $C_{\mathrm{AdS}}=\hat{M}^{2}+\frac{\Lambda}{3}\hat{J}^{2}$ | $C_{\mathrm{AdS}}=\hat{M}^{2}+\frac{\Lambda}{3}\hat{J}^{2}$ |
| mielke-geometrodynamics_EQ0623 (10.1.11) | 210 | 0.996 | \frac{\delta C_{\mathrm{TL}}}{\delta \vartheta^{\alpha}}= \frac{1}{\ell} R_{\alpha}^{\star} \quad \text { and } \quad \frac{\delta C_{\mathrm{TL}}}{\delta \Gamma^{\star \alpha}}=\frac{1}{\ell} T_{\alpha}, | $\frac{\delta C_{\mathrm{TL}}}{\delta \vartheta^{\alpha}}=\frac{1}{\ell} R_{\alpha}^{\star} \quad \text { and } \quad \frac{\delta C_{\mathrm{TL}}}{\delta \Gamma^{\star \alpha}}=\frac{1}{\ell} T_{\alpha},$ | $\frac{\delta C_{\mathrm{TL}}}{\delta \vartheta^{\alpha}}=\frac{1}{\ell} R_{\alpha}^{\star} \quad \text { and } \quad \frac{\delta C_{\mathrm{TL}}}{\delta \Gamma^{\star \alpha}}=\frac{1}{\ell} T_{\alpha},$ |
| mielke-geometrodynamics_EQ0915 (13.8.1) | 295 | 0.996 | \hat{C}:=-\frac{1}{2}\left(\Gamma_{A}{ }^{B} \wedge d \Gamma_{B}{ }^{A}-\frac{2}{3} \Gamma_{A}{ }^{B} \wedge \Gamma_{B}{ }^{C} \wedge \Gamma_{C}{ }^{A}\right) | $\hat{C}:=-\frac{1}{2}\left(\Gamma_{A}{}^{B} \wedge d \Gamma_{B}{}^{A}-\frac{2}{3} \Gamma_{A}{}^{B} \wedge \Gamma_{B}{}^{C} \wedge \Gamma_{C}{}^{A}\right)$ | $\hat{C}:=-\frac{1}{2}\left(\Gamma_{A}{}^{B} \wedge d \Gamma_{B}{}^{A}-\frac{2}{3} \Gamma_{A}{}^{B} \wedge \Gamma_{B}{}^{C} \wedge \Gamma_{C}{}^{A}\right)$ |
| mielke-geometrodynamics_EQ1071 (16.2.10) | 357 | 0.996 | E_{n}=\beta m c^{2}\left(2 n+\iota+\frac{3}{2}+\sqrt{ \frac{g}{4}+\frac{1}{\beta^{2}}}\right), n=0,1,2 \ldots . | $E_{n}=\beta m c^{2}\left(2 n+\iota+\frac{3}{2}+\sqrt{ \frac{g}{4}+\frac{1}{\beta^{2}}}\right), n=0,1,2 \ldots .$ | $E_{n}=\beta m c^{2}\left(2 n+\iota+\frac{3}{2}+\sqrt{ \frac{g}{4}+\frac{1}{\beta^{2}}}\right), n=0,1,2 \ldots .$ |
| mielke-geometrodynamics_EQ0490 (7.7.7) | 161 | 0.996 | \begin{gathered} \left.\left.-\widetilde{E}_{ \alpha}:=-e_{\alpha}\right\rfloor \widetilde{L}-\left(e_{ \alpha}\right\rfloor R^{\beta \gamma}\right) \wedge \widetilde{H}_{\beta \gamma}=\Sigma_{\alpha}, \\ D \widetilde{H}_{\alpha \beta}=\tau_{\alpha \beta} . \end{gathered} | $\begin{gathered} -\widetilde{E}_{\alpha}:=-e_{\alpha}\rfloor \widetilde{L}-\left(e_{\alpha}\rfloor R^{\beta \gamma}\right) \wedge \widetilde{H}_{\beta \gamma}=\Sigma_{\alpha}, \\ D \widetilde{H}_{\alpha \beta}=\tau_{\alpha \beta} . \end{gathered}$ | $\begin{gathered} -\widetilde{E}_{\alpha}:=-e_{\alpha}\rfloor \widetilde{L}-\left(e_{\alpha}\rfloor R^{\beta \gamma}\right) \wedge \widetilde{H}_{\beta \gamma}=\Sigma_{\alpha}, \\ D \widetilde{H}_{\alpha \beta}=\tau_{\alpha \beta} . \end{gathered}$ |
| mielke-geometrodynamics_EQ0220 (4.2.13) | 86 | 0.996 | \Omega^{\mathrm{L}} \rightarrow^{A^{-1}} \Omega^{ \mathrm{L}}=G^{-1} \Omega^{\mathrm{L}} G | $\Omega^{\mathrm{L}} \rightarrow^{A^{-1}} \Omega^{\mathrm{L}}=G^{-1} \Omega^{\mathrm{L}} G$ | $\Omega^{\mathrm{L}} \rightarrow^{A^{-1}} \Omega^{\mathrm{L}}=G^{-1} \Omega^{\mathrm{L}} G$ |
| mielke-geometrodynamics_EQ0460 (7.2.12) | 152 | 0.996 | g_{i j} \rightarrow \bar{g}_{i j}=\phi^{L} g_{i j}, | $g_{ij} \rightarrow \bar{g}_{ij}=\phi^{L} g_{ij},$ | $g_{ij} \rightarrow \bar{g}_{ij}=\phi^{L} g_{ij},$ |
| mielke-geometrodynamics_EQ0664 (10.3.21) | 218 | 0.996 | \square \vartheta_{\alpha}=\frac{\ell}{\gamma}{ }^{*} D^{*}\left[\tau_{\alpha}^{\star}-S_{\alpha}-\delta \ell \left(\Sigma_{\alpha}+E_{\alpha}\right)\right]+\frac{ \ell}{\gamma} D^{*}\left(D^{*} H_{\alpha}^{\star}-\delta \ell D^{*} H_{\alpha}\right) . | $\square \vartheta_{\alpha}=\frac{\ell}{\gamma}{ }^{*} D^{*}\left[\tau_{\alpha}^{\star}-S_{\alpha}-\delta \ell \left(\Sigma_{\alpha}+E_{\alpha}\right)\right]+\frac{\ell}{\gamma} D^{*}\left(D^{*} H_{\alpha}^{\star}-\delta \ell D^{*} H_{\alpha}\right) .$ | $\square \vartheta_{\alpha}=\frac{\ell}{\gamma}{ }^{*} D^{*}\left[\tau_{\alpha}^{\star}-S_{\alpha}-\delta \ell \left(\Sigma_{\alpha}+E_{\alpha}\right)\right]+\frac{\ell}{\gamma} D^{*}\left(D^{*} H_{\alpha}^{\star}-\delta \ell D^{*} H_{\alpha}\right) .$ |
| mielke-geometrodynamics_EQ0977 (14.2.18) | 315 | 0.996 | \hat{L}_{\\|}=-\frac{1}{2 \ell^{* 2}} \operatorname{Tr}[ \hat{\alpha} \wedge \hat{\alpha}, \quad \hat{\vartheta} \wedge \cdots \wedge \hat{\vartheta}] | $\hat{L}_{\\|}=-\frac{1}{2 \ell^{* 2}} \operatorname{Tr}[\hat{\alpha} \wedge \hat{\alpha}, \quad \hat{\vartheta} \wedge \cdots \wedge \hat{\vartheta}]$ | $\hat{L}_{\\|}=-\frac{1}{2 \ell^{* 2}} \operatorname{Tr}[\hat{\alpha} \wedge \hat{\alpha}, \quad \hat{\vartheta} \wedge \cdots \wedge \hat{\vartheta}]$ |
| mielke-geometrodynamics_EQ0250 (4.3.15) | 92 | 0.996 | { }^{*} \omega^{g}=\frac{1}{2} \omega^{\alpha \beta} L_{ \alpha \beta}=\frac{1}{2} \Gamma_{i}^{\cdot \alpha \beta} L_{\alpha \beta} \otimes d x^{i}, | ${}^{*}\omega^{g}=\frac{1}{2} \omega^{\alpha \beta} L_{\alpha \beta}=\frac{1}{2} \Gamma_{i}^{\cdot \alpha \beta} L_{\alpha \beta} \otimes d x^{i},$ | ${}^{*}\omega^{g}=\frac{1}{2} \omega^{\alpha \beta} L_{\alpha \beta}=\frac{1}{2} \Gamma_{i}^{\cdot \alpha \beta} L_{\alpha \beta} \otimes d x^{i},$ |
| mielke-geometrodynamics_EQ0376 (6.2.27) | 128 | 0.996 | \stackrel{( \pm)}{D} \vartheta^{\alpha}= \pm \frac{i}{2} \ell^{2} g^{\alpha \beta} \stackrel{( \pm)}{\Pi}_{\beta}, | $\overset{(\pm)}{D} \vartheta^{\alpha}=\pm \frac{i}{2} \ell^{2} g^{\alpha \beta} \overset{(\pm)}{\Pi}_{\beta},$ | $\overset{(\pm)}{D} \vartheta^{\alpha}=\pm \frac{i}{2} \ell^{2} g^{\alpha \beta} \overset{(\pm)}{\Pi}_{\beta},$ |
| mielke-geometrodynamics_EQ0152 (3.4.23) | 66 | 0.996 | L_{\mathrm{BI}}\left(\mathscr{F},{ }^{*} \mathscr{F} \right)=\sqrt{1-2 \mathscr{F}-\left({ }^{*} \mathscr{F} \right)^{2}}-1 . | $L_{\mathrm{BI}}\left(\mathscr{F},{ }^{*} \mathscr{F} \right)=\sqrt{1-2 \mathscr{F}-\left({ }^{*} \mathscr{F} \right)^{2}}-1 .$ | $L_{\mathrm{BI}}\left(\mathscr{F},{ }^{*} \mathscr{F} \right)=\sqrt{1-2 \mathscr{F}-\left({ }^{*} \mathscr{F} \right)^{2}}-1 .$ |
| mielke-geometrodynamics_EQ0367 (6.2.18) | 126 | 0.997 | R_{\alpha \beta}=\xi^{*} R_{\alpha \beta}^{(\star)}+ \left(\gamma / \ell^{2}\right)\left[\vartheta_{\alpha} \wedge \vartheta_{\beta} \pm i^{*}\left(\vartheta_{ \alpha} \wedge \vartheta_{\beta}\right)\right], | $R_{\alpha \beta}=\xi^{*} R_{\alpha \beta}^{(\star)}+\left(\gamma / \ell^{2}\right)\left[\vartheta_{\alpha} \wedge \vartheta_{\beta} \pm i^{*}\left(\vartheta_{\alpha} \wedge \vartheta_{\beta}\right)\right],$ | $R_{\alpha \beta}=\xi^{*} R_{\alpha \beta}^{(\star)}+\left(\gamma / \ell^{2}\right)\left[\vartheta_{\alpha} \wedge \vartheta_{\beta} \pm i^{*}\left(\vartheta_{\alpha} \wedge \vartheta_{\beta}\right)\right],$ |
| mielke-geometrodynamics_EQ0371 (6.2.22) | 127 | 0.997 | \stackrel{(+)}{\Pi}^{\beta} \wedge \stackrel{(-)}{\Pi}_{ \beta}=H^{\beta} \wedge H_{\beta}+\ell^{-4} T^{\beta} \wedge T_{\beta}=0 . | $\overset{(+)}{\Pi}{}^{\beta} \wedge \overset{(-)}{\Pi}_{\beta}=H^{\beta} \wedge H_{\beta}+\ell^{-4} T^{\beta} \wedge T_{\beta}=0 .$ | $\overset{(+)}{\Pi}{}^{\beta} \wedge \overset{(-)}{\Pi}_{\beta}=H^{\beta} \wedge H_{\beta}+\ell^{-4} T^{\beta} \wedge T_{\beta}=0 .$ |

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| mielke-geometrodynamics_EQ0602 (9.2.1) | 198 | 0.997 | `\begin{aligned} p_{1}\left(M^{4}\right) & =\frac{1}{2(2 \pi)^{2}} \int_{M^{4}} \operatorname{Tr}\left(\Omega^{ \mathrm{L}} \wedge \Omega^{\mathrm{L}}\right) \\ & = \frac{(-1)^{s / 2}}{(4 \pi)^{2}} \int_{M^{4}} R_{\alpha \beta \gamma \delta}{ }^{*} R^{\alpha \beta \gamma \delta} \sqrt{|g|} d^{4} x \end{aligned}` | $\begin{aligned} p_{1}\left(M^{4}\right) & =\frac{1}{2(2 \pi)^{2}} \int_{M^{4}} \operatorname{Tr}\left(\Omega^{\mathrm{L}} \wedge \Omega^{\mathrm{L}}\right) \\ & = \frac{(-1)^{s / 2}}{(4 \pi)^{2}} \int_{M^{4}} R_{\alpha \beta \gamma \delta}{ }^{*} R^{\alpha \beta \gamma \delta} \sqrt{|g|} d^{4} x \end{aligned}$ | $\begin{aligned} p_{1}(M^{4}) & =\frac{1}{2(2 \pi)^{2}} \int_{M^{4}} \operatorname{Tr}(\Omega^{\mathrm{L}} \wedge \Omega^{\mathrm{L}}) \\ & = \frac{(-1)^{s / 2}}{(4 \pi)^{2}} \int_{M^{4}} R_{\alpha \beta \gamma \delta}{ }^{*} R^{\alpha \beta \gamma \delta} \sqrt{|g|} d^{4} x \end{aligned}$ |
| mielke-geometrodynamics_EQ0717 (10.9.3) | 229 | 0.997 | `\Sigma_{\alpha}:=\frac{\delta L_{\Psi}}{\delta \vartheta^{\alpha}}=\frac{\partial L_{\Psi}}{\partial \vartheta_{\alpha}}+D \frac{\partial L_{\Psi}}{\partial T^{\alpha}},` | $\Sigma_{\alpha}:=\frac{\delta L_{\Psi}}{\delta \vartheta^{\alpha}}=\frac{\partial L_{\Psi}}{\partial \vartheta_{\alpha}}+D \frac{\partial L_{\Psi}}{\partial T^{\alpha}},$ | $\Sigma_{\alpha}:=\frac{\delta L_{\Psi}}{\delta \vartheta^{\alpha}}=\frac{\partial L_{\Psi}}{\partial \vartheta_{\alpha}}+D \frac{\partial L_{\Psi}}{\partial T^{\alpha}},$ |
| mielke-geometrodynamics_EQ0766 (11.1.33) | 243 | 0.997 | `\stackrel{*}{\sigma} \tilde{\omega}=\frac{1}{2} \omega^{ \alpha \beta} \sigma_{\alpha \beta}=\frac{1}{2} \Gamma_{i}^{\cdot \alpha \beta} \sigma_{\alpha \beta} \otimes d x^{i}=: \Gamma_{i} d x^{i} .` | $\stackrel{*}{\sigma} \tilde{\omega}=\frac{1}{2} \omega^{ \alpha \beta} \sigma_{\alpha \beta}=\frac{1}{2} \Gamma_{i}^{\cdot \alpha \beta} \sigma_{\alpha \beta} \otimes d x^{i}=: \Gamma_{i} d x^{i} .$ | $\stackrel{*}{\sigma} \tilde{\omega}=\frac{1}{2} \omega^{ \alpha \beta} \sigma_{\alpha \beta}=\frac{1}{2} \Gamma_{i}^{\cdot \alpha \beta} \sigma_{\alpha \beta} \otimes d x^{i}=: \Gamma_{i} d x^{i} .$ |
| mielke-geometrodynamics_EQ1003 (14.3.16) | 323 | 0.997 | `D D=\frac{1}{2}\{D, D\}+\frac{1}{2}[D, D]=\frac{1}{2}\{D, D\}+\frac{1}{2} \widetilde{\Omega}` | $D D=\frac{1}{2}\{D, D\}+\frac{1}{2}[D, D]=\frac{1}{2}\{D, D\}+\frac{1}{2} \widetilde{\Omega}$ | $D D=\frac{1}{2}\{D, D\}+\frac{1}{2}[D, D]=\frac{1}{2}\{D, D\}+\frac{1}{2} \widetilde{\Omega}$ |
| mielke-geometrodynamics_EQ0225 (4.2.18) | 87 | 0.997 | `\omega^{\mathrm{T}}=\widetilde{\widetilde{\vartheta}}-D \widetilde{\widetilde{\varphi}}` | $\omega^{\mathrm{T}}=\widetilde{\widetilde{\vartheta}}-D \widetilde{\widetilde{\varphi}}$ | $\omega^{\mathrm{T}}=\widetilde{\widetilde{\vartheta}}-D \widetilde{\widetilde{\varphi}}$ |
| mielke-geometrodynamics_EQ0048 (2.6.11) | 43 | 0.997 | `D D D b \equiv 0 .` | $D D D b \equiv 0 .$ | $D D D b \equiv 0 .$ |
| mielke-geometrodynamics_EQ0099 (3.2.9) | 56 | 0.997 | `\begin{aligned} { }^{\Delta} \omega:={ }^{G^{-1}} \omega- \omega & =G^{-1}[\omega, G]-G^{-1} d G \\ & =-G^{-1} D G=-G^{-1} D . \end{aligned}` | $\begin{aligned} {}^{\Delta} \omega:={}^{G^{-1}} \omega- \omega & =G^{-1}[\omega, G]-G^{-1} d G \\ & =-G^{-1} D G=-G^{-1} D . \end{aligned}$ | $\begin{aligned} {}^{\Delta} \omega:={}^{G^{-1}} \omega- \omega & =G^{-1}[\omega, G]-G^{-1} d G \\ & =-G^{-1} D G=-{}^{G^{-1}} D . \end{aligned}$ |
| mielke-geometrodynamics_EQ0219 (4.2.12) | 86 | 0.997 | `\widetilde{\widetilde{\Omega}} \rightarrow^{A^{-1}} \widetilde{\widetilde{\Omega}}=A^{-1} \widetilde{ \widetilde{\Omega}} A` | $\widetilde{\widetilde{\Omega}} \rightarrow^{A^{-1}} \widetilde{\widetilde{\Omega}}=A^{-1} \widetilde{ \widetilde{\Omega}} A$ | $\widetilde{\widetilde{\Omega}} \rightarrow^{A^{-1}} \widetilde{\widetilde{\Omega}}=A^{-1} \widetilde{ \widetilde{\Omega}} A$ |
| mielke-geometrodynamics_EQ0411 (6.4.31) | 136 | 0.997 | `n_{\mathrm{NY}}:=\int_{R^{4}} d C_{\mathrm{TT}}= \int_{S_{\infty}^{3}} \underline{C}_{\mathrm{TT}}=3 \operatorname{Vol}\left(S^{3}\right) k=6 \pi^{2} k .` | $n_{\mathrm{NY}}:=\int_{R^{4}} d C_{\mathrm{TT}}= \int_{S_{\infty}^{3}} \underline{C}_{\mathrm{TT}}=3 \operatorname{Vol}\left(S^{3}\right) k=6 \pi^{2} k .$ | $n_{\mathrm{NY}}:=\int_{R^{4}} d C_{\mathrm{TT}}= \int_{S_{\infty}^{3}} \underline{C}_{\mathrm{TT}}=3 \operatorname{Vol}(S^{3}) k=6 \pi^{2} k .$ |
| mielke-geometrodynamics_EQ0492 (7.7.10) | 161 | 0.997 | `H_{\alpha \beta}:=-\frac{\partial L}{\partial R^{\alpha \beta}}=\widetilde{H}_{\alpha \beta}+\frac{1}{2} R^{ \mu \nu} \wedge\left(\partial \widetilde{H}_{\mu \nu} / \partial R^{\alpha \beta}\right)` | $H_{\alpha \beta}:=-\frac{\partial L}{\partial R^{\alpha \beta}}=\widetilde{H}_{\alpha \beta}+\frac{1}{2} R^{ \mu \nu} \wedge\left(\partial \widetilde{H}_{\mu \nu} / \partial R^{\alpha \beta}\right)$ | $H_{\alpha \beta}:=-\frac{\partial L}{\partial R^{\alpha \beta}}=\widetilde{H}_{\alpha \beta}+\frac{1}{2} R^{ \mu \nu} \wedge(\partial \widetilde{H}_{\mu \nu} / \partial R^{\alpha \beta})$ |
| mielke-geometrodynamics_EQ0877 (13.3.6) | 285 | 0.997 | `\left[P_{\alpha}, P_{*}^{\beta}\right]=\frac{1}{\ell^{2}} L^{\beta}{ }_{\alpha} .` | $\left[P_{\alpha}, P_{*}^{\beta}\right]=\frac{1}{\ell^{2}} L^{\beta}{ }_{\alpha} .$ | $\left[P_{\alpha}, P_{*}^{\beta}\right]=\frac{1}{\ell^{2}} L^{\beta}{ }_{\alpha} .$ |
| mielke-geometrodynamics_EQ0962 (14.2.2) | 312 | 0.997 | `\stackrel{\circ}{\vartheta}=\varphi_{j} d \xi^{j},` | $\stackrel{\circ}{\vartheta}=\varphi_{j} d \xi^{j},$ | $\stackrel{\circ}{\vartheta}=\varphi_{j} d \xi^{j},$ |
| mielke-geometrodynamics_EQ1060 (16.1.1) | 354 | 0.997 | `R_{i j}^{\mathrm{f}}-\frac{1}{2} \mathrm{f}_{i j} \left(R^{\mathrm{f}}-2 \Lambda_{\mathrm{eff}}\right)= \ell^{2} \mathrm{~T}_{i j}` | $R_{i j}^{\mathrm{f}}-\frac{1}{2} \mathrm{f}_{i j} \left(R^{\mathrm{f}}-2 \Lambda_{\mathrm{eff}}\right)= \ell^{2} \mathrm{~T}_{i j}$ | $R_{i j}^{\mathrm{f}}-\frac{1}{2} \mathrm{f}_{i j}(R^{\mathrm{f}}-2 \Lambda_{\mathrm{eff}})= \ell^{2} \mathrm{~T}_{i j}$ |

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| mielke-geometrodynamics_EQ0976 (14.2.17) | 315 | 0.997 | `\begin{aligned} \hat{L}_{\mathrm{W} .} & =\frac{1}{2} \operatorname{Tr}(\hat{\Omega} \wedge \underbrace{\hat{ \vartheta} \wedge \ldots \wedge \hat{\vartheta}}_{2+ \mathrm{K} \text { termms }}) \\ & =\hat{L}_{\mathrm{W} .}^{g}+\hat{L}_{\mathrm{W} .}^{G}+\ell^{* 2} \hat{L}_{ \\|}-\frac{1}{2} d \operatorname{Tr}(\hat{\alpha} \wedge \hat{\vartheta} \wedge \cdots \wedge \hat{\vartheta}) \end{aligned}` | $\hat{L}_{\mathrm{W.}} = \frac{1}{2}\operatorname{Tr}(\hat{\Omega} \wedge \underbrace{\hat{\vartheta} \wedge \ldots \wedge \hat{\vartheta}}_{2+\mathrm{K}\text{ termms}})$ <br> $= \hat{L}^{g}_{\mathrm{W.}} + \hat{L}^{G}_{\mathrm{W.}} + \ell^{*2}\hat{L}_{\|} - \frac{1}{2} d\operatorname{Tr}(\hat{\alpha} \wedge \hat{\vartheta} \wedge \cdots \wedge \hat{\vartheta})$ | $\hat{L}_{\mathrm{W.}} = \frac{1}{2}\operatorname{Tr}(\hat{\Omega} \wedge \underbrace{\hat{\vartheta} \wedge \ldots \wedge \hat{\vartheta}}_{2+\mathrm{K}\text{ termms}})$ <br> $= \hat{L}^{g}_{\mathrm{W.}} + \hat{L}^{G}_{\mathrm{W.}} + \ell^{*2}\hat{L}_{\|} - \frac{1}{2} d\operatorname{Tr}(\hat{\alpha} \wedge \hat{\vartheta} \wedge \cdots \wedge \hat{\vartheta})$ |
| mielke-geometrodynamics_EQ0466 (7.3.5) | 153 | 0.997 | `G_{\alpha}^{\{ \}}:=\frac{1}{2} R^{\{ \} \beta \gamma} \wedge \eta_{\alpha \beta \gamma}, \quad G_{i j}:= \operatorname{Ric}_{i j}^{\{ \}}-\frac{1}{2} g_{i j},` | $G_{\alpha}^{\{\}} := \frac{1}{2} R^{\{\}\beta\gamma} \wedge \eta_{\alpha\beta\gamma}, \quad G_{ij} := \operatorname{Ric}_{ij}^{\{\}} - \frac{1}{2} g_{ij},$ | $G_{\alpha}^{\{\}} := \frac{1}{2} R^{\{\}\beta\gamma} \wedge \eta_{\alpha\beta\gamma}, \quad G_{ij} := \operatorname{Ric}_{ij}^{\{\}} - \frac{1}{2} g_{ij},$ |
| mielke-geometrodynamics_EQ0105 (3.3.6) | 58 | 0.998 | `H:=-\frac{\partial L}{\partial d A}=-\frac{\partial L}{ \partial F} \quad \text { and } \quad j:=\frac{\delta L_{ \mathrm{mat}}}{\delta A},` | $H := -\frac{\partial L}{\partial dA} = -\frac{\partial L}{\partial F} \quad \text{and} \quad j := \frac{\delta L_{\mathrm{mat}}}{\delta A},$ | $H := -\frac{\partial L}{\partial dA} = -\frac{\partial L}{\partial F} \quad \text{and} \quad j := \frac{\delta L_{\mathrm{mat}}}{\delta A},$ |
| mielke-geometrodynamics_EQ0136 (3.4.7) | 63 | 0.998 | `\begin{aligned} \delta \Omega & =\delta(d \omega-\omega \wedge \omega)=\delta d \omega-\delta \omega \wedge \omega-\omega \wedge \delta \omega \\ & =d \delta \omega-[\omega, \delta \omega]=D \delta \omega . \end{aligned}` | $\delta\Omega = \delta(d\omega - \omega\wedge\omega) = \delta d\omega - \delta\omega\wedge\omega - \omega\wedge\delta\omega$ <br> $= d\delta\omega - [\omega, \delta\omega] = D\delta\omega.$ | $\delta\Omega = \delta(d\omega - \omega\wedge\omega) = \delta d\omega - \delta\omega\wedge\omega - \omega\wedge\delta\omega$ <br> $= d\delta\omega - [\omega, \delta\omega] = D\delta\omega.$ |
| mielke-geometrodynamics_EQ0390 (6.4.5) | 131 | 0.998 | `\mathscr{H}=n\rfloor L-\ell_{n} \underline{\Psi} \wedge \left(\frac{\partial L}{\partial d \Psi}\right) .` | $\mathscr{H} = n\rfloor L - \ell_n \underline{\Psi} \wedge \left(\frac{\partial L}{\partial d\Psi}\right).$ | $\mathscr{H} = n\rfloor L - \ell_n \underline{\Psi} \wedge \underline{\left(\frac{\partial L}{\partial d\Psi}\right)}.$ |
| mielke-geometrodynamics_EQ0594 (9.1.12) | 195 | 0.998 | `\bar{\Omega}^{\{ \}}=0 .` | $\bar{\Omega}^{\{\}} = 0.$ | $\overline{\Omega}^{\{\}} = 0.$ |
| mielke-geometrodynamics_EQ1012 (14.4.7) | 326 | 0.998 | `\begin{aligned} S_{\mathrm{A}} & :=4 \pi\left(r_{+}^{2}+ \frac{J(J+1) \hbar^{2}}{M^{2} c^{2}}\right) \\ & = \frac{8 \pi \hbar^{2}}{M^{* 4} c^{2}}\left(M^{2}+\frac{ \alpha_{e}}{2} M^{* 2} \operatorname{Tr} \bar{Q}^{2}+M \sqrt{M^{2}-J(J+1) \frac{M^{* 4}}{M^{2}}-\alpha_{e} M^{* 2} \operatorname{Tr} \bar{Q}^{2}}\right) \end{aligned}` | $S_{\mathrm{A}} := 4\pi\left(r_+^2 + \frac{J(J+1)\hbar^2}{M^2c^2}\right)$ <br> $= \frac{8\pi\hbar^2}{M^{*4}c^2}\left(M^2 + \frac{\alpha_e}{2}M^{*2}\operatorname{Tr}\bar{Q}^2 + M\sqrt{M^2 - J(J+1)\frac{M^{*4}}{M^2} - \alpha_e M^{*2}\operatorname{Tr}\bar{Q}^2}\right)$ | $S_{\mathrm{A}} := 4\pi\left(r_+^2 + \frac{J(J+1)\hbar^2}{M^2c^2}\right)$ <br> $= \frac{8\pi\hbar^2}{M^{*4}c^2}\left(M^2 + \frac{\alpha_e}{2}M^{*2}\operatorname{Tr}\overline{Q}^2 + M\sqrt{M^2 - J(J+1)\frac{M^{*4}}{M^2} - \alpha_e M^{*2}\operatorname{Tr}\overline{Q}^2}\right)$ |
| mielke-geometrodynamics_EQ0813 (11.4.26) | 256 | 0.998 | `d \rho^{*}:=e^{(\mu-\nu) / 2} d \rho .` | $d\rho^* := e^{(\mu-\nu)/2} d\rho.$ | $d\rho^* := e^{(\mu-\nu)/2} d\rho.$ |
| mielke-geometrodynamics_EQ0073 (2.8.16) | 49 | 0.998 | `\begin{aligned} & d \stackrel{\infty}{\omega}-\stackrel{ \infty}{\omega} \wedge \stackrel{\infty}{\omega} \\ & =-d \left(G^{-1}\right) \wedge d G-G^{-1} d d G-\left(G^{-1} d G\right) \wedge\left(G^{-1} d G\right) \\ & =-d \left(G^{-1}\right) \wedge d G+G^{-1} G d\left(G^{-1} \right) \wedge d G=0 \end{aligned}` | $d\overset{\infty}{\omega} - \overset{\infty}{\omega}\wedge\overset{\infty}{\omega}$ <br> $= -d\left(G^{-1}\right)\wedge dG - G^{-1}ddG - \left(G^{-1}dG\right)\wedge\left(G^{-1}dG\right)$ <br> $= -d\left(G^{-1}\right)\wedge dG + G^{-1}Gd\left(G^{-1}\right)\wedge dG = 0$ | $d\overset{\infty}{\omega} - \overset{\infty}{\omega}\wedge\overset{\infty}{\omega}$ <br> $= -d(G^{-1})\wedge dG - G^{-1}ddG - (G^{-1}dG)\wedge(G^{-1}dG)$ <br> $= -d(G^{-1})\wedge dG + G^{-1}Gd(G^{-1})\wedge dG = 0$ |
| mielke-geometrodynamics_EQ0214 (4.2.6) | 86 | 0.998 | `\mathscr{G}(n, \mathbb{R}):=C^{\infty}\left(A(M) \times_{ \mathrm{Ad}} G L(n, \mathbb{R})\right)` | $\mathscr{G}(n, \mathbb{R}) := C^{\infty}\left(A(M) \times_{\mathrm{Ad}} GL(n, \mathbb{R})\right)$ | $\mathscr{G}(n, \mathbb{R}) := C^{\infty}(A(M) \times_{\mathrm{Ad}} GL(n, \mathbb{R}))$ |

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| mielke-geometrodynamics_EQ0656 (10.3.13) | 216 | 0.998 | `\left.\left.E_{\alpha}=e_{\alpha}\right\rfloor L(\star)+(-1)^{s} \frac{2 \gamma}{\ell}\left[\left(e_{\alpha}\right\rfloor R^{\star \beta}\right) \wedge \vartheta_{\beta}\right]` | $E_{\alpha}=e_{\alpha}\rfloor L(\star)+(-1)^{s} \frac{2 \gamma}{\ell}\left[\left(e_{\alpha}\right\rfloor R^{\star \beta}\right) \wedge \vartheta_{\beta}\right]$ | $E_{\alpha}=e_{\alpha}\rfloor L(\star)+(-1)^{s} \frac{2 \gamma}{\ell}\left[\left(e_{\alpha}\right\rfloor R^{\star \beta}\right) \wedge \vartheta_{\beta}\right]$ |
| mielke-geometrodynamics_EQ0062 (2.8.3) | 46 | 0.998 | `\begin{aligned} & *\left(d \gamma_{k}\right)=d \pi^{*}\left(\gamma_{k}\right)=D \pi^{*}\left(\gamma_{k}\right) \\ & =\frac{(-1)^{k}}{(2 \pi i)^{k}(k-1)!} \operatorname{Tr}(D \Omega \wedge \Omega \wedge \cdots \wedge \Omega)=0 . \end{aligned}` | $\begin{aligned} & *\left(d \gamma_{k}\right)=d \pi^{*}\left(\gamma_{k}\right)=D \pi^{*}\left(\gamma_{k}\right) \\ & =\frac{(-1)^{k}}{(2 \pi i)^{k}(k-1)!} \operatorname{Tr}(D \Omega \wedge \Omega \wedge \cdots \wedge \Omega)=0 . \end{aligned}$ | $\begin{aligned} & *\left(d \gamma_{k}\right)=d \pi^{*}\left(\gamma_{k}\right)=D \pi^{*}\left(\gamma_{k}\right) \\ & =\frac{(-1)^{k}}{(2 \pi i)^{k}(k-1)!} \operatorname{Tr}(D \Omega \wedge \Omega \wedge \cdots \wedge \Omega)=0 . \end{aligned}$ |
| mielke-geometrodynamics_EQ0426 (6.7.8) | 141 | 0.998 | `\mu_{\alpha}=\frac{1}{4} \vartheta_{\alpha} \wedge{ }^{*} j_{5},` | $\mu_{\alpha}=\frac{1}{4} \vartheta_{\alpha} \wedge{ }^{*} j_{5},$ | $\mu_{\alpha}=\frac{1}{4} \vartheta_{\alpha} \wedge{ }^{*} j_{5},$ |
| mielke-geometrodynamics_EQ0069 (2.8.12) | 48 | 0.998 | `\begin{aligned} c_{2}(M) & =\frac{1}{8 \pi^{2}} \int_{M} d \operatorname{Tr}\left(\omega \wedge \Omega+\frac{1}{3} \omega \wedge \omega \wedge \omega\right) \\ & = \frac{1}{8 \pi^{2}} \int_{\partial M} \operatorname{Tr}\left(\omega \wedge d \omega-\frac{2}{3} \omega \wedge \omega \wedge \omega\right) . \end{aligned}` | $\begin{aligned} c_{2}(M) & =\frac{1}{8 \pi^{2}} \int_{M} d \operatorname{Tr}\left(\omega \wedge \Omega+\frac{1}{3} \omega \wedge \omega \wedge \omega\right) \\ & =\frac{1}{8 \pi^{2}} \int_{\partial M} \operatorname{Tr}\left(\omega \wedge d \omega-\frac{2}{3} \omega \wedge \omega \wedge \omega\right) . \end{aligned}$ | $\begin{aligned} c_{2}(M) & =\frac{1}{8 \pi^{2}} \int_{M} d \operatorname{Tr}\left(\omega \wedge \Omega+\frac{1}{3} \omega \wedge \omega \wedge \omega\right) \\ & =\frac{1}{8 \pi^{2}} \int_{\partial M} \operatorname{Tr}\left(\omega \wedge d \omega-\frac{2}{3} \omega \wedge \omega \wedge \omega\right) . \end{aligned}$ |
| mielke-geometrodynamics_EQ0144 (3.4.15) | 64 | 0.998 | `\iota:=\tau+(-1)^{n+s} *\left[\omega, \Pi^{\Omega}\right]` | $\iota:=\tau+(-1)^{n+s} *\left[\omega, \Pi^{\Omega}\right]$ | $\iota:=\tau+(-1)^{n+s} *\left[\omega, \Pi^{\Omega}\right]$ |
| mielke-geometrodynamics_EQ0318 (5.2.2) | 110 | 0.998 | `j:=\bar{\psi}^{*} \gamma \psi=j^{\mu} \eta_{\mu} \quad \text { and } \quad j_{5}:=\bar{\psi}^{*} \gamma \gamma_{5} \psi=j_{5}^{\mu} \eta_{\mu},` | $j:=\bar{\psi}^{*} \gamma \psi=j^{\mu} \eta_{\mu} \quad \text { and } \quad j_{5}:=\bar{\psi}^{*} \gamma \gamma_{5} \psi=j_{5}^{\mu} \eta_{\mu},$ | $j:=\bar{\psi}^{*} \gamma \psi=j^{\mu} \eta_{\mu} \quad \text { and } \quad j_{5}:=\bar{\psi}^{*} \gamma \gamma_{5} \psi=j_{5}^{\mu} \eta_{\mu},$ |
| mielke-geometrodynamics_EQ0347 (5.4.5) | 116 | 0.998 | `\mu=\frac{4}{3} \kappa \Lambda=\frac{1}{3}(2 \kappa)^{2} \rho_{\Lambda} \leq \frac{4}{3} g_{\mathrm{N} *} \lambda_{*} \simeq 0.2` | $\mu=\frac{4}{3} \kappa \Lambda=\frac{1}{3}(2 \kappa)^{2} \rho_{\Lambda} \leq \frac{4}{3} g_{\mathrm{N} *} \lambda_{*} \simeq 0.2$ | $\mu=\frac{4}{3} \kappa \Lambda=\frac{1}{3}(2 \kappa)^{2} \rho_{\Lambda} \leq \frac{4}{3} g_{\mathrm{N} *} \lambda_{*} \simeq 0.2$ |
| mielke-geometrodynamics_EQ0500 (7.7.18) | 163 | 0.998 | `{ }^{*} \sigma=\frac{1}{2} \sigma_{\alpha \beta}{ }^{*} \left(\vartheta^{\alpha} \wedge \vartheta^{\beta}\right)= \frac{1}{2} \sigma_{\alpha \beta} \eta^{\alpha \beta}=: \sigma^{(\star)}=i \gamma_{5} \sigma .` | ${}^{*}\sigma=\frac{1}{2} \sigma_{\alpha \beta}{}^{*}\left(\vartheta^{\alpha} \wedge \vartheta^{\beta}\right)=\frac{1}{2} \sigma_{\alpha \beta} \eta^{\alpha \beta}=: \sigma^{(\star)}=i \gamma_{5} \sigma .$ | ${}^{*}\sigma=\frac{1}{2} \sigma_{\alpha \beta}{}^{*}\left(\vartheta^{\alpha} \wedge \vartheta^{\beta}\right)=\frac{1}{2} \sigma_{\alpha \beta} \eta^{\alpha \beta}=: \sigma^{(\star)}=i \gamma_{5} \sigma .$ |
| mielke-geometrodynamics_EQ0670 (10.3.27) | 219 | 0.998 | `\check{\mathscr{E}}_{\alpha}:=d H_{\alpha} \cong \Sigma_{\alpha}+E_{\alpha}-(-1)^{s} \eta_{\alpha \beta \gamma} \Gamma^{\star \beta} \wedge H^{\gamma}` | $\check{\mathscr{E}}_{\alpha}:=d H_{\alpha} \cong \Sigma_{\alpha}+E_{\alpha}-(-1)^{s} \eta_{\alpha \beta \gamma} \Gamma^{\star \beta} \wedge H^{\gamma}$ | $\check{\mathscr{E}}_{\alpha}:=d H_{\alpha} \cong \Sigma_{\alpha}+E_{\alpha}-(-1)^{s} \eta_{\alpha \beta \gamma} \Gamma^{\star \beta} \wedge H^{\gamma}$ |
| mielke-geometrodynamics_EQ0680 (10.3.37) | 221 | 0.998 | `\theta_{\mathrm{L}} C_{\mathrm{L}}-\tilde{\theta}_{ \mathrm{L}} \widetilde{C}_{\mathrm{L}}=-\frac{\chi}{ \ell} \vartheta^{\alpha} \wedge R_{\alpha}^{\star}- \frac{\Lambda}{\ell} \eta+\frac{\theta_{\mathrm{T}}}{2 \ell} \vartheta^{\alpha} \wedge T_{\alpha}+\Delta \theta_{\mathrm{L}} C_{\mathrm{L}}+\frac{\Delta \theta_{\mathrm{TL}}}{\ell} d\left(\Gamma^{\star \alpha} \wedge \vartheta_{\alpha}\right)` | $\theta_{\mathrm{L}} C_{\mathrm{L}}-\tilde{\theta}_{\mathrm{L}} \widetilde{C}_{\mathrm{L}}=-\frac{\chi}{\ell} \vartheta^{\alpha} \wedge R_{\alpha}^{\star}-\frac{\Lambda}{\ell} \eta+\frac{\theta_{\mathrm{T}}}{2 \ell} \vartheta^{\alpha} \wedge T_{\alpha}+\Delta \theta_{\mathrm{L}} C_{\mathrm{L}}+\frac{\Delta \theta_{\mathrm{TL}}}{\ell} d\left(\Gamma^{\star \alpha} \wedge \vartheta_{\alpha}\right)$ | $\theta_{\mathrm{L}} C_{\mathrm{L}}-\tilde{\theta}_{\mathrm{L}} \widetilde{C}_{\mathrm{L}}=-\frac{\chi}{\ell} \vartheta^{\alpha} \wedge R_{\alpha}^{\star}-\frac{\Lambda}{\ell} \eta+\frac{\theta_{\mathrm{T}}}{2 \ell} \vartheta^{\alpha} \wedge T_{\alpha}+\Delta \theta_{\mathrm{L}} C_{\mathrm{L}}+\frac{\Delta \theta_{\mathrm{TL}}}{\ell} d\left(\Gamma^{\star \alpha} \wedge \vartheta_{\alpha}\right)$ |
| mielke-geometrodynamics_EQ0700 (10.5.11) | 225 | 0.998 | `[\hat{D}, \hat{D}]=\hat{R}+T^{\alpha} \hat{D}_{\alpha} .` | $[\hat{D}, \hat{D}]=\hat{R}+T^{\alpha} \hat{D}_{\alpha} .$ | $[\hat{D}, \hat{D}]=\hat{R}+T^{\alpha} \hat{D}_{\alpha} .$ |
| mielke-geometrodynamics_EQ0820 (11.4.34) | 258 | 0.998 | `f^{l}(\rho)=\bar{\rho}^{l}\left(1+\bar{e}^{4 l+2} \right)^{-1 / 2}` | $f^{l}(\rho)=\bar{\rho}^{l}\left(1+\bar{e}^{4 l+2} \right)^{-1 / 2}$ | $f^{l}(\rho)=\bar{\rho}^{l}\left(1+\bar{e}^{4 l+2} \right)^{-1 / 2}$ |

| Identifier | Page | Conf. | LaTeX source | Rendered | Image |
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| mielke-geometrodynamics_EQ1126 (B.38) | 373 | 0.998 | `\partial: C_{p}(M, \mathbb{R}) \rightarrow C_{p-1}(M, \mathbb{R}),` | $\partial : C_p(M, \mathbb{R}) \rightarrow C_{p-1}(M, \mathbb{R}),$ | $\partial : C_p(M, \mathbb{R}) \rightarrow C_{p-1}(M, \mathbb{R}),$ |
| mielke-geometrodynamics_EQ0516 (7.7.34) | 166 | 0.998 | `\widetilde{T}=T-3 d \varphi, \quad \mathscr{A}^{\theta}= \mathscr{A}-i d \theta .` | $\widetilde{T} = T - 3d\varphi, \quad \mathscr{A}^{\theta} = \mathscr{A} - id\theta.$ | $\widetilde{T} = T - 3d\varphi\,, \qquad \mathscr{A}^{\theta} = \mathscr{A} - id\theta\,.$ |
| mielke-geometrodynamics_EQ0967 (14.2.8) | 313 | 0.998 | `d \stackrel{\circ}{s}^{2}=\stackrel{\circ}{g}_{i j} d \xi^{i} \otimes_{s} d \xi^{j}` | $d \overset{\circ}{s}{}^2 = \overset{\circ}{g}_{ij}\, d\xi^i \otimes_s d\xi^j$ | $d\overset{\circ}{s}{}^2 = \overset{\circ}{g}_{ij} d\xi^i \otimes_s d\xi^j,$ |
| mielke-geometrodynamics_EQ0060 (2.8.1) | 46 | 0.999 | `\operatorname{det}\left(1+\frac{i}{2 \pi} \Omega\right)= \stackrel{*}{\pi}\left(1+\gamma_{1}+\cdots+\gamma_{m} \right)` | $\operatorname{det}\left(1+\frac{i}{2 \pi} \Omega\right)=\overset{*}{\pi}\left(1+\gamma_{1}+\cdots+\gamma_{m}\right)$ | $\operatorname{det}\left(1+\frac{i}{2\pi}\Omega\right) = \overset{*}{\pi}(1+\gamma_1+\cdots+\gamma_m)$ |
| mielke-geometrodynamics_EQ0071 (2.8.14) | 48 | 0.999 | `\stackrel{\infty}{\omega}:=-G^{-1} d G,` | $\overset{\infty}{\omega}:=-G^{-1} d G,$ | $\overset{\infty}{\omega} := -G^{-1} dG,$ |
| mielke-geometrodynamics_EQ0235 (4.2.28) | 89 | 0.999 | `Q_{\kappa \mu \nu}:=-D_{\kappa} g_{\mu \nu}` | $Q_{\kappa \mu \nu} := -D_{\kappa} g_{\mu \nu}$ | $Q_{\kappa\mu\nu} := -D_\kappa\, g_{\mu\nu}$ |
| mielke-geometrodynamics_EQ0278 (4.4.6) | 97 | 0.999 | `\begin{aligned} & D \Pi^{\mathrm{T}}-E=\Sigma \\ & D \Pi^{\mathrm{L}}+\Pi_{[]}^{\mathrm{T}}=\tau_{\mathrm{s}} \end{aligned}` | $\begin{aligned} & D \Pi^{\mathrm{T}}-E=\Sigma \\ & D \Pi^{\mathrm{L}}+\Pi_{[]}^{\mathrm{T}}=\tau_{\mathrm{s}} \end{aligned}$ | $\begin{aligned} & D\Pi^{\mathrm{T}} - E = \Sigma \\ & D\Pi^{\mathrm{L}} + \Pi^{\mathrm{T}}_{[]} = \tau_{\mathrm{s}} \end{aligned}$ |
| mielke-geometrodynamics_EQ0313 (4.6.5) | 105 | 0.999 | `\Phi(A, \gamma)=P \exp [(i / \hbar) \oint A],` | $\Phi(A, \gamma)=P \exp[(i / \hbar) \oint A],$ | $\Phi(A, \gamma) = P\, \exp\big[(i/\hbar) \oint A\big],$ |
| mielke-geometrodynamics_EQ0358 (6.2.9) | 125 | 0.999 | `L_{\\|}:=-\frac{1}{2 \kappa} T^{\alpha} \wedge{ }^{*} \left({ }^{(1)} T_{\alpha}-2^{(2)} T_{\alpha}- \frac{1}{2}{ }^{(3)} T_{\alpha}\right),` | $L_{\|}:=-\frac{1}{2 \kappa} T^{\alpha} \wedge{ }^{*}\left({ }^{(1)} T_{\alpha}-2^{(2)} T_{\alpha}-\frac{1}{2}{ }^{(3)} T_{\alpha}\right),$ | $L_{\|} := -\frac{1}{2\kappa} T^\alpha \wedge {}^*\Big({}^{(1)}T_\alpha - 2\,{}^{(2)}T_\alpha - \frac{1}{2}\,{}^{(3)}T_\alpha\Big),$ |
| mielke-geometrodynamics_EQ0461 (7.2.13) | 152 | 0.999 | `\stackrel{(\mp)}{\Omega}_{\mathrm{C}}=0` | $\overset{(\mp)}{\Omega}{}_{\mathrm{C}}=0$ | $\overset{(\mp)}{\Omega}{}_{\mathrm{C}} = 0$ |
| mielke-geometrodynamics_EQ0620 (10.1.8) | 209 | 0.999 | `\frac{\delta C_{\mathrm{T}}}{\delta \vartheta^{\alpha}}= \frac{1}{\ell^{2}} T_{\alpha} \quad \text { and } \quad \frac{\delta C_{\mathrm{T}}}{\delta Gamma^{\star \alpha}}=\frac{(-1)^{s}}{\ell^{2}} \eta_{\alpha},` | $\frac{\delta C_{\mathrm{T}}}{\delta \vartheta^{\alpha}}=\frac{1}{\ell^{2}} T_{\alpha} \quad \text { and } \quad \frac{\delta C_{\mathrm{T}}}{\delta \Gamma^{\star \alpha}}=\frac{(-1)^{s}}{\ell^{2}} \eta_{\alpha},$ | $\frac{\delta C_{\mathrm{T}}}{\delta \vartheta^\alpha} = \frac{1}{\ell^2}\, T_\alpha \quad \text{and} \quad \frac{\delta C_{\mathrm{T}}}{\delta \Gamma^{\star\alpha}} = \frac{(-1)^s}{\ell^2}\, \eta_\alpha\,,$ |
| mielke-geometrodynamics_EQ0667 (10.3.24) | 218 | 0.999 | `\left[\square+(-1)^{s} m^{2}\right] \vartheta^{\alpha} \cong 0,` | $\left[\square+(-1)^{s} m^{2}\right] \vartheta^{\alpha} \cong 0,$ | $\left[\square + (-1)^s m^2\right] \vartheta^\alpha \cong 0,$ |
| mielke-geometrodynamics_EQ0678 (10.3.35) | 220 | 0.999 | `\check{\mathscr{E}}_{\alpha}^{\mathrm{MB}}-\check{ \mathscr{E}}_{\alpha}=\frac{\theta_{\mathrm{TL}}}{\ell} d \Gamma_{\alpha}^{\star},` | $\check{\mathscr{E}}_{\alpha}^{\mathrm{MB}}-\check{\mathscr{E}}_{\alpha}=\frac{\theta_{\mathrm{TL}}}{\ell} d \Gamma_{\alpha}^{\star},$ | $\check{\mathscr{E}}^{\mathrm{MB}}_\alpha - \check{\mathscr{E}}_\alpha = \frac{\theta_{\mathrm{TL}}}{\ell} d\Gamma^\star_\alpha,$ |
| mielke-geometrodynamics_EQ0740 (11.1.7) | 238 | 0.999 | `\mathrm{XX}=-\mathrm{o}_{\alpha \beta} x^{\alpha} x^{ \beta} \mathbb{1}` | $\mathrm{XX}=-\mathrm{o}_{\alpha \beta} x^{\alpha} x^{\beta} \mathbb{1}$ | $\mathrm{XX} = -\mathrm{o}_{\alpha\beta} x^\alpha x^\beta \mathbb{1}$ |
| mielke-geometrodynamics_EQ0776 (11.2.5) | 246 | 0.999 | `L_{\mathrm{D}}=\frac{i}{2}\left(\bar{\psi} \gamma \wedge^{*} d \psi+d \bar{\psi} \wedge^{*} \gamma \psi \right)-m \bar{\psi} \psi \eta-\frac{1}{2} \bar{\psi} \left[\widetilde{\omega},{ }^{*} \gamma\right] \psi,` | $L_{\mathrm{D}}=\frac{i}{2}\left(\bar{\psi} \gamma \wedge^{*} d \psi+d \bar{\psi} \wedge^{*} \gamma \psi\right)-m \bar{\psi} \psi \eta-\frac{1}{2} \bar{\psi}\left[\widetilde{\omega},{ }^{*} \gamma\right] \psi,$ | $L_{\mathrm{D}} = \frac{i}{2}(\overline{\psi}\gamma \wedge {}^*d\psi + d\overline{\psi} \wedge {}^*\gamma\psi) - m\overline{\psi}\psi\eta - \frac{1}{2}\overline{\psi}[\widetilde{\omega}, {}^*\gamma]\psi,$ |
| mielke-geometrodynamics_EQ0805 (11.4.17) | 255 | 0.999 | `\kappa=\mp\left(j+\frac{1}{2}\right) \quad \text { for } \quad j=l \pm \frac{1}{2} .` | $\kappa=\mp\left(j+\frac{1}{2}\right) \quad \text { for } \quad j=l \pm \frac{1}{2}.$ | $\kappa = \mp(j+\frac{1}{2}) \quad \text{for} \quad j = l \pm \frac{1}{2}.$ |
| mielke-geometrodynamics_EQ0989 (14.3.2) | 320 | 0.999 | `\hat{L}_{\mathrm{D} .}=\frac{i}{2}\left(\overline{\hat{ \psi}} \hat{\gamma} \wedge^{*} \hat{D} \hat{\psi}+( \overline{\hat{D} \hat{\psi}}) \wedge^{*} \hat{\gamma} \hat{\psi}\right)-\hat{m} \overline{\hat{\psi}} \hat{ \psi} \eta` | $\hat{L}_{\mathrm{D} .}=\frac{i}{2}\left(\overline{\hat{\psi}} \hat{\gamma} \wedge^{*} \hat{D} \hat{\psi}+(\overline{\hat{D} \hat{\psi}}) \wedge^{*} \hat{\gamma} \hat{\psi}\right)-\hat{m} \overline{\hat{\psi}} \hat{\psi} \eta$ | $\hat{L}_{\mathrm{D}.} = \frac{i}{2}(\overline{\hat{\psi}}\hat{\gamma} \wedge {}^*\hat{D}\hat{\psi} + (\overline{\hat{D}\hat{\psi}}) \wedge {}^*\hat{\gamma}\hat{\psi}) - \hat{m}\overline{\hat{\psi}}\hat{\psi}\eta$ |

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| mielke-geometrodynamics_EQ1057 (15.2.14) | 346 | 0.999 | i \bar{\gamma} \wedge^{*} \bar{D}^{\{ \}} \psi-6 \ell^{2} \bar{\gamma}^{5} \bar{\gamma} \wedge^{*}\left(\bar{\psi} \bar{\gamma}^{5} \bar{\gamma} \psi\right) \psi-m \psi \eta=0 | $i\bar{\gamma} \wedge^{*} \bar{D}^{\{\}}\psi-6\ell^{2}\bar{\gamma}^{5}\bar{\gamma} \wedge^{*}\left(\bar{\psi}\bar{\gamma}^{5}\bar{\gamma}\psi\right)\psi-m\psi\eta=0$ | $i\,\overline{\gamma} \wedge^{*} \overline{D}^{\{\}}\psi-6\,\ell^{2}\,\overline{\gamma}^{5}\,\overline{\gamma} \wedge^{*}(\overline{\psi}\,\overline{\gamma}^{5}\,\overline{\gamma}\,\psi)\psi-m\psi\,\eta=0$ |
| mielke-geometrodynamics_EQ0669 (10.3.26) | 219 | 0.999 | m=\frac{\theta_{\mathrm{T}} \theta_{\mathrm{TL}}}{2\left( \theta_{\mathrm{TL}}^{2}+\theta_{\mathrm{T}} \theta_{ \mathrm{L}}\right) \ell}, \quad \Lambda_{\mathrm{ind}}= \frac{\theta_{\mathrm{T}}^{2}\left[-(-1)^{s} 3 \theta_{\mathrm{TL}}^{2}+8 \theta_{\mathrm{T}} \theta_{\mathrm{L}}\right]}{4\left[(-1)^{s} \theta_{ \mathrm{TL}}^{2}-2 \theta_{\mathrm{T}} \theta_{ \mathrm{L}}\right]^{2} \ell^{2}}, | $m=\frac{\theta_{\mathrm{T}} \theta_{\mathrm{TL}}}{2\left( \theta_{\mathrm{TL}}^{2}+\theta_{\mathrm{T}} \theta_{ \mathrm{L}}\right) \ell}, \quad \Lambda_{\mathrm{ind}}= \frac{\theta_{\mathrm{T}}^{2}\left[-(-1)^{s} 3 \theta_{\mathrm{TL}}^{2}+8 \theta_{\mathrm{T}} \theta_{\mathrm{L}}\right]}{4\left[(-1)^{s} \theta_{ \mathrm{TL}}^{2}-2 \theta_{\mathrm{T}} \theta_{ \mathrm{L}}\right]^{2} \ell^{2}},$ | $m=\frac{\theta_{\mathrm{T}}\theta_{\mathrm{TL}}}{2(\theta_{\mathrm{TL}}^{2}+\theta_{\mathrm{T}}\theta_{\mathrm{L}})\ell}, \qquad \Lambda_{\mathrm{ind}}=\frac{\theta_{\mathrm{T}}^{2}[-(-1)^{s}3\theta_{\mathrm{TL}}^{2}+8\theta_{\mathrm{T}}\theta_{\mathrm{L}}]}{4[(-1)^{s}\theta_{\mathrm{TL}}^{2}-2\theta_{\mathrm{T}}\theta_{\mathrm{L}}]^{2}\ell^{2}},$ |
| mielke-geometrodynamics_EQ0929 (14.1.10) | 304 | 0.999 | \begin{aligned} & \operatorname{Tr}\left(\Sigma_{ \mathrm{YM}} \wedge^{*} \vartheta\right)= \operatorname{Tr}\left(\vartheta \wedge^{*} \Sigma_{ \mathrm{YM}}\right) \\ & =\frac{1}{2 \alpha_{g}} \operatorname{Tr}\left\{\vartheta \wedge \Omega \wedge^{*} (\vartheta \wedge^{*} \Omega)+\vartheta \wedge^{*} \vartheta \wedge^{*} (\Omega \wedge^{*} \Omega)\right\}=0 \end{aligned} | $\begin{aligned} & \operatorname{Tr}\left(\Sigma_{ \mathrm{YM}} \wedge^{*} \vartheta\right)= \operatorname{Tr}\left(\vartheta \wedge^{*} \Sigma_{ \mathrm{YM}}\right) \\ & =\frac{1}{2 \alpha_{g}} \operatorname{Tr}\left\{\vartheta \wedge \Omega \wedge^{*} (\vartheta \wedge^{*} \Omega)+\vartheta \wedge^{*} \vartheta \wedge^{*} (\Omega \wedge^{*} \Omega)\right\}=0 \end{aligned}$ | $\begin{aligned} & \operatorname{Tr}(\Sigma_{ \mathrm{YM}} \wedge^{*} \vartheta)= \operatorname{Tr}(\vartheta \wedge^{*} \Sigma_{ \mathrm{YM}}) \\ & =\frac{1}{2 \alpha_{g}} \operatorname{Tr}\left\{\vartheta \wedge \Omega \wedge^{*} (\vartheta \wedge^{*} \Omega)+\vartheta \wedge^{*} \vartheta \wedge^{*} (\Omega \wedge^{*} \Omega)\right\}=0 \end{aligned}$ |
| mielke-geometrodynamics_EQ0093 (3.2.3) | 55 | 0.999 | \omega^{\prime} \rightarrow{ }^{G^{-1}} \omega^{ \prime}=G^{-1} \omega^{\prime} G+\left(d G^{-1}\right) G | $\omega^{\prime} \rightarrow{ }^{G^{-1}} \omega^{\prime}=G^{-1} \omega^{\prime} G+\left(d G^{-1}\right) G$ | $\omega^{\prime} \rightarrow{ }^{G^{-1}} \omega^{\prime}=G^{-1} \omega^{\prime} G+(d G^{-1}) G$ |
| mielke-geometrodynamics_EQ0113 (3.3.14) | 59 | 0.999 | H={ }^{*} F . | $H={ }^{*} F .$ | $H={ }^{*} F .$ |
| mielke-geometrodynamics_EQ0173 (3.7.1) | 71 | 0.999 | L_{\mathrm{H}}=-\bar{\Theta}^{(1)} \wedge{ }^{*} D \phi^{0}+\bar{\Theta}^{(1)} \wedge{ }^{*} \Theta^{(1)}+ \frac{\lambda}{4}\left(\frac{\mu^{2}}{\lambda}-\bar{ \varphi} \cdot \varphi\right)^{2} \eta . | $L_{\mathrm{H}}=-\bar{\Theta}^{(1)} \wedge{}^{*} D \phi^{0}+\bar{\Theta}^{(1)} \wedge{}^{*} \Theta^{(1)}+\frac{\lambda}{4}\left(\frac{\mu^{2}}{\lambda}-\bar{\varphi} \cdot \varphi\right)^{2} \eta .$ | $L_{\mathrm{H}}=-\overline{\Theta}^{(1)} \wedge{}^{*} D \phi^{0}+\overline{\Theta}^{(1)} \wedge{}^{*} \Theta^{(1)}+\frac{\lambda}{4}\left(\frac{\mu^{2}}{\lambda}-\overline{\varphi} \cdot \varphi\right)^{2} \eta .$ |
| mielke-geometrodynamics_EQ0201 (4.1.15) | 83 | 0.999 | \delta_{g}^{*} \vartheta=g^{-1} \vartheta, \quad g \in G L(n, \mathbb{R}), | $\delta_{g}^{*} \vartheta=g^{-1} \vartheta, \quad g \in G L(n, \mathbb{R}),$ | $\delta_{g}^{*} \vartheta=g^{-1} \vartheta, \quad g \in G L(n, \mathbb{R}),$ |
| mielke-geometrodynamics_EQ0275 (4.4.3) | 97 | 0.999 | \begin{aligned} & =d(\delta \vartheta)-\left[\omega^{ \mathrm{L}}, \delta \vartheta\right]-\left[\delta \omega^{\mathrm{L}}, \vartheta\right] \\ & =D(\delta \vartheta)-\left[\delta \omega^{\mathrm{L}}, \vartheta\right] . \end{aligned} | $\begin{aligned} & =d(\delta \vartheta)-\left[\omega^{\mathrm{L}}, \delta \vartheta\right]-\left[\delta \omega^{\mathrm{L}}, \vartheta\right] \\ & =D(\delta \vartheta)-\left[\delta \omega^{\mathrm{L}}, \vartheta\right] . \end{aligned}$ | $\begin{aligned} & =d(\delta \vartheta)-[\omega^{\mathrm{L}}, \delta \vartheta]-[\delta \omega^{\mathrm{L}}, \vartheta] \\ & =D(\delta \vartheta)-[\delta \omega^{\mathrm{L}}, \vartheta]. \end{aligned}$ |
| mielke-geometrodynamics_EQ0341 (5.3.18) | 115 | 0.999 | { }^{*} \mathscr{A}=\frac{\kappa}{2} j_{5}, | ${ }^{*} \mathscr{A}=\frac{\kappa}{2} j_{5},$ | ${ }^{*} \mathscr{A}=\frac{\kappa}{2} j_{5},$ |
| mielke-geometrodynamics_EQ0441 (6.8.12) | 143 | 0.999 | D \tau_{\alpha \beta}+\vartheta_{[\alpha} \wedge \Sigma_{ \beta]} \cong 0, | $D \tau_{\alpha \beta}+\vartheta_{[\alpha} \wedge \Sigma_{\beta]} \cong 0,$ | $D \tau_{\alpha \beta}+\vartheta_{[\alpha} \wedge \Sigma_{\beta]} \cong 0,$ |
| mielke-geometrodynamics_EQ0476 (7.4.4) | 156 | 0.999 | C_{\alpha \beta}=0 \quad \text { and } \quad R=0, | $C_{\alpha \beta}=0 \quad \text{and} \quad R=0,$ | $C_{\alpha \beta}=0 \quad \text{and} \quad R=0,$ |
| mielke-geometrodynamics_EQ0519 (7.7.37) | 166 | 0.999 | D \Theta \equiv\left[\Omega^{g}, \gamma\right], \quad D \Omega^{g} \equiv 0, | $D \Theta \equiv\left[\Omega^{g}, \gamma\right], \quad D \Omega^{g} \equiv 0,$ | $D \Theta \equiv\left[\Omega^{g}, \gamma\right], \qquad D \Omega^{g} \equiv 0,$ |

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| mielke-geometrodynamics_EQ0567 (8.6.4) | 183 | 0.999 | `\begin{aligned} H_{\alpha \beta}(* *) & =\theta_{ \mathrm{L}} R_{\alpha \beta}+\theta_{\mathrm{L}}^{ \star} R_{\alpha \beta}^{(\star)}+\frac{\theta_{ \mathrm{T}}^{*}}{2 \ell^{2}} \eta_{\alpha \beta}-\frac{ \theta_{\mathrm{T}}}{2 \ell^{2}} \vartheta_{\alpha} \wedge \vartheta_{\beta} \\ & \simeq-\partial L_{\theta} / \partial R^{\alpha \beta} \end{aligned}` | $\begin{aligned} H_{\alpha \beta}(* *) & =\theta_{\mathrm{L}} R_{\alpha \beta}+\theta_{\mathrm{L}}^{\star} R_{\alpha \beta}^{(\star)}+\frac{\theta_{\mathrm{T}}^{*}}{2 \ell^{2}} \eta_{\alpha \beta}-\frac{\theta_{\mathrm{T}}}{2 \ell^{2}} \vartheta_{\alpha} \wedge \vartheta_{\beta} \\ & \simeq-\partial L_{\theta} / \partial R^{\alpha \beta} \end{aligned}$ | $\begin{aligned} H_{\alpha \beta}(* *) & =\theta_{\mathrm{L}} R_{\alpha \beta}+\theta_{\mathrm{L}}^{\star} R_{\alpha \beta}^{(\star)}+\frac{\theta_{\mathrm{T}}^{*}}{2 \ell^{2}} \eta_{\alpha \beta}-\frac{\theta_{\mathrm{T}}}{2 \ell^{2}} \vartheta_{\alpha} \wedge \vartheta_{\beta} \\ & \simeq-\partial L_{\theta} / \partial R^{\alpha \beta} \end{aligned}$ |
| mielke-geometrodynamics_EQ0624 (10.1.12) | 210 | 0.999 | `D H_{\alpha}-E_{\alpha}=\Sigma_{\alpha},` | $DH_{\alpha}-E_{\alpha}=\Sigma_{\alpha},$ | $DH_{\alpha}-E_{\alpha}=\Sigma_{\alpha},$ |
| mielke-geometrodynamics_EQ0673 (10.3.30) | 220 | 0.999 | `H_{\alpha}=-\frac{\theta_{\mathrm{T}}}{2 \ell^{2}} \vartheta_{\alpha}-\frac{\theta_{\mathrm{TL}}}{\ell} \Gamma_{\alpha}^{\star}, \quad H_{\alpha}^{\star}=-\frac{ \theta_{\mathrm{L}}}{2} \Gamma_{\alpha}^{\star},` | $H_{\alpha}=-\frac{\theta_{\mathrm{T}}}{2 \ell^{2}} \vartheta_{\alpha}-\frac{\theta_{\mathrm{TL}}}{\ell} \Gamma_{\alpha}^{\star}, \quad H_{\alpha}^{\star}=-\frac{\theta_{\mathrm{L}}}{2} \Gamma_{\alpha}^{\star},$ | $H_{\alpha}=-\frac{\theta_{\mathrm{T}}}{2 \ell^{2}} \vartheta_{\alpha}-\frac{\theta_{\mathrm{TL}}}{\ell} \Gamma_{\alpha}^{\star}, \quad H_{\alpha}^{\star}=-\frac{\theta_{\mathrm{L}}}{2} \Gamma_{\alpha}^{\star},$ |
| mielke-geometrodynamics_EQ0722 (10.10.2) | 230 | 0.999 | `\delta L=\delta \vartheta^{\alpha} \wedge \frac{\delta L}{\delta \vartheta^{\alpha}}+\delta \Gamma_{\alpha}^{ \star} \wedge \frac{\delta L}{\delta \Gamma_{\alpha}^{ \star}}+\delta \bar{\Psi} \wedge \frac{\delta L}{\delta \bar{\Psi}},` | $\delta L=\delta \vartheta^{\alpha} \wedge \frac{\delta L}{\delta \vartheta^{\alpha}}+\delta \Gamma_{\alpha}^{\star} \wedge \frac{\delta L}{\delta \Gamma_{\alpha}^{\star}}+\delta \bar{\Psi} \wedge \frac{\delta L}{\delta \bar{\Psi}},$ | $\delta L=\delta \vartheta^{\alpha} \wedge \frac{\delta L}{\delta \vartheta^{\alpha}}+\delta \Gamma_{\alpha}^{\star} \wedge \frac{\delta L}{\delta \Gamma_{\alpha}^{\star}}+\delta \bar{\Psi} \wedge \frac{\delta L}{\delta \bar{\Psi}},$ |
| mielke-geometrodynamics_EQ0759 (11.1.26) | 242 | 0.999 | `{ }^{*}(\underbrace{\gamma \wedge \cdots \wedge \gamma}_{p})=\frac{p!}{(n-p)!} \gamma^{n+1} \underbrace{ \gamma \wedge \cdots \wedge \gamma}_{n-p} .` | $^{*}(\underbrace{\gamma \wedge \cdots \wedge \gamma}_{p})=\frac{p!}{(n-p)!} \gamma^{n+1} \underbrace{\gamma \wedge \cdots \wedge \gamma}_{n-p} .$ | $^{*}(\underbrace{\gamma \wedge \cdots \wedge \gamma}_{p})=\frac{p!}{(n-p)!} \gamma^{n+1} \underbrace{\gamma \wedge \cdots \wedge \gamma}_{n-p} .$ |
| mielke-geometrodynamics_EQ0780 (11.2.8) | 247 | 0.999 | `(\psi, \chi):=\int_{H^{n-1}} \tau_{s}(\psi, \chi)=i \int_{H^{n-1}} \psi^{*} \gamma \chi` | $(\psi, \chi):=\int_{H^{n-1}} \tau_{s}(\psi, \chi)=i \int_{H^{n-1}} \psi^{*} \gamma \chi$ | $(\psi, \chi):=\int_{H^{n-1}} \tau_{s}(\psi, \chi)=i \int_{H^{n-1}} \psi^{*} \gamma \chi$ |
| mielke-geometrodynamics_EQ0789 (11.4.1) | 251 | 0.999 | `E_{r}=\sqrt{\alpha} r_{\circ}^{2}\left[1+\left( \frac{r}{r_{\circ}}\right)^{4}\right]^{-1 / 2} \sim \sqrt{\alpha} \frac{1}{r^{2}}` | $E_{r}=\sqrt{\alpha} r_{\circ}^{2}\left[1+\left(\frac{r}{r_{\circ}}\right)^{4}\right]^{-1 / 2} \sim \sqrt{\alpha} \frac{1}{r^{2}}$ | $E_{r}=\sqrt{\alpha} r_{\circ}^{2}\left[1+\left(\frac{r}{r_{\circ}}\right)^{4}\right]^{-1 / 2} \sim \sqrt{\alpha} \frac{1}{r^{2}}$ |
| mielke-geometrodynamics_EQ0825 (11.4.39) | 259 | 0.999 | `m_{\pi}=\sqrt{1-\omega^{2}} m` | $m_{\pi}=\sqrt{1-\omega^{2}} m$ | $m_{\pi}=\sqrt{1-\omega^{2}} m$ |
| mielke-geometrodynamics_EQ0892 (13.4.11) | 287 | 0.999 | `\vartheta \xrightarrow{A^{-1}(x)} \vartheta^{ \prime}=\Lambda^{-1}(x) \vartheta, \quad \theta \xrightarrow{A^{-1}(x)} \theta^{\prime}=\theta \Lambda^{-1}(x) .` | $\vartheta \xrightarrow{A^{-1}(x)} \vartheta^{\prime}=\Lambda^{-1}(x) \vartheta, \quad \theta \xrightarrow{A^{-1}(x)} \theta^{\prime}=\theta \Lambda^{-1}(x) .$ | $\vartheta \xrightarrow{A^{-1}(x)} \vartheta^{\prime}=\Lambda^{-1}(x) \vartheta, \quad \theta \xrightarrow{A^{-1}(x)} \theta^{\prime}=\theta \Lambda^{-1}(x) .$ |
| mielke-geometrodynamics_EQ0932 (14.1.13) | 304 | 0.999 | `e^{* \delta} \circ e^{* \varepsilon}=e^{* \varepsilon} \circ e^{* \delta}=e^{*(\delta+\varepsilon)},` | $e^{* \delta} \circ e^{* \varepsilon}=e^{* \varepsilon} \circ e^{* \delta}=e^{*(\delta+\varepsilon)},$ | $e^{* \delta} \circ e^{* \varepsilon}=e^{* \varepsilon} \circ e^{* \delta}=e^{*(\delta+\varepsilon)},$ |
| mielke-geometrodynamics_EQ0940 (14.1.21) | 305 | 0.999 | `\xi \wedge \xi=\xi \wedge^{*} \xi=0` | $\xi \wedge \xi=\xi \wedge^{*} \xi=0$ | $\xi \wedge \xi=\xi \wedge^{*} \xi=0$ |
| mielke-geometrodynamics_EQ0951 (14.1.33) | 307 | 0.999 | `\begin{aligned} & D^{*} \xi-(-1)^{z} \xi \wedge D \delta= \bar{\tau}_{e} \\ & D \xi+(-1)^{z *} \xi \wedge D \delta= \bar{\tau}_{p} \end{aligned}` | $\begin{aligned} & D^{*} \xi-(-1)^{z} \xi \wedge D \delta= \bar{\tau}_{e} \\ & D \xi+(-1)^{z *} \xi \wedge D \delta= \bar{\tau}_{p} \end{aligned}$ | $\begin{aligned} & D^{*} \xi-(-1)^{z} \xi \wedge D \delta= \bar{\tau}_{e}, \\ & D \xi+(-1)^{z *} \xi \wedge D \delta= \bar{\tau}_{p}. \end{aligned}$ |

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| mielke-geometrodynamics_EQ0968 (14.2.9) | 314 | 0.999 | `\hat{\omega}=\left[\begin{array}{c\|c} \omega^{g} & -\alpha \\ \hline \alpha^{\mathrm{T}} & \grave{\omega} \end{array}\right]=: \omega^{g} \oplus \stackrel{\circ}{\omega}-\hat{\alpha} ; \quad \hat{\alpha}=\left[\begin{array}{c\|c} 0 & \alpha \\ \hline-\alpha^{\mathrm{T}} & 0 \end{array}\right]` | $\hat{\omega}=\left[\begin{array}{c\|c} \omega^{g} & -\alpha \\ \hline \alpha^{\mathrm{T}} & \grave{\omega} \end{array}\right]=: \omega^{g} \oplus \stackrel{\circ}{\omega}-\hat{\alpha}; \quad \hat{\alpha}=\left[\begin{array}{c\|c} 0 & \alpha \\ \hline-\alpha^{\mathrm{T}} & 0 \end{array}\right]$ | $\hat{\omega}=\left[\begin{array}{c\|c} \omega^{g} & -\alpha \\ \hline \alpha^{\mathrm{T}} & \grave{\omega} \end{array}\right]=: \omega^{g} \oplus \stackrel{\circ}{\omega}-\hat{\alpha}; \quad \hat{\alpha}=\left[\begin{array}{c\|c} 0 & \alpha \\ \hline-\alpha^{\mathrm{T}} & 0 \end{array}\right]$ |
| mielke-geometrodynamics_EQ1039 (15.1.16) | 339 | 0.999 | `\begin{aligned} d s_{f}^{2}= & f_{i j} d x^{i} \otimes_{s} d x^{j} \\ = & -\frac{3 \gamma}{2} e^{-\lambda^{f}} d t^{2}+2\left[\gamma\left\{1-\left(1+\frac{9 \gamma}{4}\right) e^{\lambda^{f}-\lambda^{g}}+\frac{9 \gamma}{4} e^{2\left(\lambda^{f}-\lambda^{g}\right)}\right\}\right]^{1 / 2} d t d r \\ & +e^{\lambda^{g}}\left\{\frac{2}{3}+\frac{3}{2}(1-e^{\lambda^{g}-\lambda^{f}})\right\} d r^{2}+\frac{2}{3} r^{2} d \Omega^{2} \end{aligned}` | $\begin{aligned} d s_{f}^{2}= & f_{i j} d x^{i} \otimes_{s} d x^{j} \\ = & -\frac{3 \gamma}{2} e^{-\lambda^{f}} d t^{2}+2\left[\gamma\left\{1-\left(1+\frac{9 \gamma}{4}\right) e^{\lambda^{f}-\lambda^{g}}+\frac{9 \gamma}{4} e^{2\left(\lambda^{f}-\lambda^{g}\right)}\right\}\right]^{1 / 2} d t d r \\ & +e^{\lambda^{g}}\left\{\frac{2}{3}+\frac{3}{2}(1-e^{\lambda^{g}-\lambda^{f}})\right\} d r^{2}+\frac{2}{3} r^{2} d \Omega^{2} \end{aligned}$ | $\begin{aligned} d s_{f}^{2}= & f_{i j} d x^{i} \otimes_{s} d x^{j} \\ = & -\frac{3 \gamma}{2} e^{-\lambda^{f}} d t^{2}+2\left[\gamma\left\{1-\left(1+\frac{9 \gamma}{4}\right) e^{\lambda^{f}-\lambda^{g}}+\frac{9 \gamma}{4} e^{2\left(\lambda^{f}-\lambda^{g}\right)}\right\}\right]^{1 / 2} d t d r \\ & +e^{\lambda^{g}}\left\{\frac{2}{3}+\frac{3}{2}(1-e^{\lambda^{g}-\lambda^{f}})\right\} d r^{2}+\frac{2}{3} r^{2} d \Omega^{2} \end{aligned}$ (15.1.1 |
| mielke-geometrodynamics_EQ1088 (A.15) | 366 | 0.999 | `C(1, n-1)=\left[\bigotimes_{i=1}^{\left[\frac{n-2}{2} \right]} C(0,2)\right] \otimes C(1,1) .` | $C(1, n-1)=\left[\bigotimes_{i=1}^{\left[\frac{n-2}{2}\right]} C(0,2)\right] \otimes C(1,1).$ | $C(1, n-1)=\left[\bigotimes_{i=1}^{\left[\frac{n-2}{2}\right]} C(0,2)\right] \otimes C(1,1).$ |
| mielke-geometrodynamics_EQ0434 (6.8.5) | 142 | 0.999 | `H_{\alpha}:=-\frac{\partial L_{g}}{\partial d \vartheta^{\alpha}}=-\frac{\partial L_{g}}{\partial T^{\alpha}}, \quad \text { and } \quad H_{\alpha \beta}:=-\frac{\partial L_{g}}{\partial d \Gamma^{\alpha \beta}}=-\frac{\partial L_{g}}{\partial R^{\alpha \beta}} .` | $H_{\alpha}:=-\frac{\partial L_{g}}{\partial d \vartheta^{\alpha}}=-\frac{\partial L_{g}}{\partial T^{\alpha}}, \quad \text { and } \quad H_{\alpha \beta}:=-\frac{\partial L_{g}}{\partial d \Gamma^{\alpha \beta}}=-\frac{\partial L_{g}}{\partial R^{\alpha \beta}}.$ | $H_{\alpha}:=-\frac{\partial L_{g}}{\partial d \vartheta^{\alpha}}=-\frac{\partial L_{g}}{\partial T^{\alpha}}, \quad \text { and } \quad H_{\alpha \beta}:=-\frac{\partial L_{g}}{\partial d \Gamma^{\alpha \beta}}=-\frac{\partial L_{g}}{\partial R^{\alpha \beta}}.$ |
| mielke-geometrodynamics_EQ0566 (8.6.3) | 183 | 0.999 | `H_{\alpha \beta}:=-\partial L_{\mathrm{qPG}} / \partial R^{\alpha \beta}=\frac{a_{0}}{2 \ell^{2}} \eta_{\alpha \beta}+{ }^{*}\left(\sum_{N=1}^{6} b_{(N)}{ }^{(N)} R_{\alpha \beta}\right)` | $H_{\alpha \beta}:=-\partial L_{\mathrm{qPG}} / \partial R^{\alpha \beta}=\frac{a_{0}}{2 \ell^{2}} \eta_{\alpha \beta}+{ }^{*}\left(\sum_{N=1}^{6} b_{(N)}{ }^{(N)} R_{\alpha \beta}\right)$ | $H_{\alpha \beta}:=-\partial L_{\mathrm{qPG}} / \partial R^{\alpha \beta}=\frac{a_{0}}{2 \ell^{2}} \eta_{\alpha \beta}+{ }^{*}\left(\sum_{N=1}^{6} b_{(N)}{ }^{(N)} R_{\alpha \beta}\right)$ |
| mielke-geometrodynamics_EQ0798 (11.4.10) | 254 | 0.999 | `\begin{aligned} & \left\{i \bar{\gamma}^{k}\left(\partial_{k}+i \bar{\Gamma}_{k}+\frac{3}{4} \partial_{k} \mu\right)\right. \\ & \left.+\frac{3 \varepsilon}{8} \ell^{2} e^{\mu / 2}\left(\bar{\psi} \psi-\mathrm{a} \bar{\psi} \gamma^{5} \psi \gamma^{5}\right)-e^{\mu / 2} m\right\} \psi=0 . \end{aligned}` | $\begin{aligned} & \left\{i \bar{\gamma}^{k}\left(\partial_{k}+i \bar{\Gamma}_{k}+\frac{3}{4} \partial_{k} \mu\right)\right. \\ & \left.+\frac{3 \varepsilon}{8} \ell^{2} e^{\mu / 2}\left(\bar{\psi} \psi-\mathrm{a} \bar{\psi} \gamma^{5} \psi \gamma^{5}\right)-e^{\mu / 2} m\right\} \psi=0. \end{aligned}$ | $\begin{aligned} & \left\{i \bar{\gamma}^{k}\left(\partial_{k}+i \bar{\Gamma}_{k}+\frac{3}{4} \partial_{k} \mu\right)\right. \\ & \left.+\frac{3 \varepsilon}{8} \ell^{2} e^{\mu / 2}\left(\bar{\psi} \psi-\mathrm{a} \bar{\psi} \gamma^{5} \psi \gamma^{5}\right)-e^{\mu / 2} m\right\} \psi=0. \end{aligned}$ |
| mielke-geometrodynamics_EQ0833 (12.2.1) | 270 | 0.999 | `L_{\mathrm{D}}=L(\gamma, \psi, \mathscr{D} \psi)= \frac{i}{2}\left\{\bar{\psi}^{*} \gamma \wedge \mathscr{D} \psi+\overline{\mathscr{D} \psi} \wedge^{*} \gamma \psi\right\}-m \bar{\psi} \psi \eta,` | $L_{\mathrm{D}}=L(\gamma, \psi, \mathscr{D} \psi)=\frac{i}{2}\left\{\bar{\psi}^{*} \gamma \wedge \mathscr{D} \psi+\overline{\mathscr{D} \psi} \wedge^{*} \gamma \psi\right\}-m \bar{\psi} \psi \eta,$ | $L_{\mathrm{D}}=L(\gamma, \psi, \mathscr{D} \psi)=\frac{i}{2}\left\{\bar{\psi}^{*} \gamma \wedge \mathscr{D} \psi+\overline{\mathscr{D} \psi} \wedge^{*} \gamma \psi\right\}-m \bar{\psi} \psi \eta,$ |
| mielke-geometrodynamics_EQ0020 (2.4.2) | 38 | 1.000 | `V^{\rho}:=V^{\rho}\left(M, \mathbb{C}^{N}, \rho(G) \subseteq G L(N, \mathbb{C}), P\right),` | $V^{\rho}:=V^{\rho}\left(M, \mathbb{C}^{N}, \rho(G) \subseteq G L(N, \mathbb{C}), P\right),$ | $V^{\rho}:=V^{\rho}\left(M, \mathbb{C}^{N}, \rho(G) \subseteq G L(N, \mathbb{C}), P\right),$ |

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| mielke-geometrodynamics_EQ0091 (3.2.1) | 55 | 1.000 | `\mathscr{O} \rightarrow{ }^{G^{-1}} \mathscr{O}=G^{-1} \mathscr{O} G .` | $\mathscr{O} \rightarrow{ }^{G^{-1}} \mathscr{O}=G^{-1} \mathscr{O} G .$ | $\mathscr{O} \rightarrow{ }^{G^{-1}} \mathscr{O}=G^{-1} \mathscr{O} G .$ |
| mielke-geometrodynamics_EQ0101 (3.3.2) | 57 | 1.000 | `A \rightarrow A+d \theta(x) \quad \Rightarrow \quad F \rightarrow d A+d d \theta=d A=F .` | $A \rightarrow A+d \theta(x) \quad \Rightarrow \quad F \rightarrow d A+d d \theta=d A=F .$ | $A \rightarrow A+d \theta(x) \quad \Rightarrow \quad F \rightarrow d A+d d \theta=d A=F .$ |
| mielke-geometrodynamics_EQ0137 (3.4.8) | 63 | 1.000 | `\begin{aligned} \delta L_{\omega} & =\delta \Omega \wedge \Pi^{\Omega}=D(\delta \omega) \wedge \Pi^{\Omega} \\ & =-\delta \omega \wedge D \Pi^{\Omega}+d\left(\delta \omega \wedge \Pi^{\Omega}\right) . \end{aligned}` | $\begin{aligned} \delta L_{\omega} & =\delta \Omega \wedge \Pi^{\Omega}=D(\delta \omega) \wedge \Pi^{\Omega} \\ & =-\delta \omega \wedge D \Pi^{\Omega}+d\left(\delta \omega \wedge \Pi^{\Omega}\right) . \end{aligned}$ | $\begin{aligned} \delta L_{\omega} & =\delta \Omega \wedge \Pi^{\Omega}=D(\delta \omega) \wedge \Pi^{\Omega} \\ & =-\delta \omega \wedge D \Pi^{\Omega}+d\left(\delta \omega \wedge \Pi^{\Omega}\right) . \end{aligned}$ |
| mielke-geometrodynamics_EQ0146 (3.4.17) | 65 | 1.000 | `Q=Q^{(i)} I_{i}:=\int_{H^{3}} \iota=\int_{\partial H^{3}} \Pi^{\Omega},` | $Q=Q^{(i)} I_{i}:=\int_{H^{3}} \iota=\int_{\partial H^{3}} \Pi^{\Omega},$ | $Q=Q^{(i)} I_{i}:=\int_{H^{3}} \iota=\int_{\partial H^{3}} \Pi^{\Omega},$ |
| mielke-geometrodynamics_EQ0175 (3.7.4) | 72 | 1.000 | `\tau_{\mathrm{H}}=-\left[\phi^{(0)},{ }^{*} \Theta^{(1)} \right]` | $\tau_{\mathrm{H}}=-\left[\phi^{(0)},{ }^{*} \Theta^{(1)} \right]$ | $\tau_{\mathrm{H}}=-\left[\phi^{(0)},{ }^{*} \Theta^{(1)} \right]$ |
| mielke-geometrodynamics_EQ0195 (4.1.5) | 82 | 1.000 | `\mathfrak{a}(n, \mathbb{R})=\mathbb{R}^{n} \otimes \mathfrak{g} l(n, \mathbb{R})` | $\mathfrak{a}(n, \mathbb{R})=\mathbb{R}^{n} \otimes \mathfrak{g} l(n, \mathbb{R})$ | $\mathfrak{a}(n, \mathbb{R})=\mathbb{R}^{n} \otimes \mathfrak{g} l(n, \mathbb{R})$ |
| mielke-geometrodynamics_EQ0208 (4.1.22) | 84 | 1.000 | `T_{\mathrm{A}}(M)=\stackrel{\circ}{V}\left(M, \mathbb{R}^{n}, A(n, \mathbb{R}), A(M)\right) \subset V^{\mathrm{id}}` | $T_{\mathrm{A}}(M)=\stackrel{\circ}{V}\left(M, \mathbb{R}^{n}, A(n, \mathbb{R}), A(M)\right) \subset V^{\mathrm{id}}$ | $T_{\mathrm{A}}(M)=\stackrel{\circ}{V}\left(M, \mathbb{R}^{n}, A(n, \mathbb{R}), A(M)\right) \subset V^{\mathrm{id}}$ |
| mielke-geometrodynamics_EQ0212 (4.2.4) | 85 | 1.000 | `\Omega^{\mathrm{T}}:=D \omega^{\mathrm{T}}=d \omega^{ \mathrm{T}}-\left[\omega^{\mathrm{T}}, \omega^{ \mathrm{L}}\right],` | $\Omega^{\mathrm{T}}:=D \omega^{\mathrm{T}}=d \omega^{\mathrm{T}}-\left[\omega^{\mathrm{T}}, \omega^{\mathrm{L}}\right],$ | $\Omega^{\mathrm{T}}:=D \omega^{\mathrm{T}}=d \omega^{\mathrm{T}}-\left[\omega^{\mathrm{T}}, \omega^{\mathrm{L}}\right],$ |
| mielke-geometrodynamics_EQ0215 (4.2.7) | 86 | 1.000 | `\mathscr{T}(n, \mathbb{R}):=C^{\infty}\left(A(M) \times_{ \mathrm{Ad}} \mathbb{R}^{n}\right)` | $\mathscr{T}(n, \mathbb{R}):=C^{\infty}\left(A(M) \times_{ \mathrm{Ad}} \mathbb{R}^{n}\right)$ | $\mathscr{T}(n, \mathbb{R}):=C^{\infty}\left(A(M) \times_{ \mathrm{Ad}} \mathbb{R}^{n}\right)$ |
| mielke-geometrodynamics_EQ0217 (4.2.9) | 86 | 1.000 | `A=\left[\begin{array}{c\|c} G & T \\ \hline 0 & 1 \end{array}\right] \in \mathscr{A}_{p}, \quad G \in \mathscr{G}_{p}, T \in \mathscr{T}_{p}` | $A=\left[\begin{array}{c\|c} G & T \\ \hline 0 & 1 \end{array}\right] \in \mathscr{A}_{p}, \quad G \in \mathscr{G}_{p}, T \in \mathscr{T}_{p}$ | $A=\left[\begin{array}{c\|c} G & T \\ \hline 0 & 1 \end{array}\right] \in \mathscr{A}_{p}, \quad G \in \mathscr{G}_{p}, T \in \mathscr{T}_{p}$ |
| mielke-geometrodynamics_EQ0243 (4.3.8) | 91 | 1.000 | `\cos \phi=\frac{g_{\mu \nu} d V^{\mu} d W^{\nu}}{ \sqrt{g_{\alpha \beta} d V^{\alpha} d V^{\beta}} \sqrt{g_{\alpha \beta} d W^{\alpha} d W^{\beta}}}` | $\cos \phi=\frac{g_{\mu \nu} d V^{\mu} d W^{\nu}}{ \sqrt{g_{\alpha \beta} d V^{\alpha} d V^{\beta}} \sqrt{g_{\alpha \beta} d W^{\alpha} d W^{\beta}}}$ | $\cos \phi=\frac{g_{\mu \nu} d V^{\mu} d W^{\nu}}{ \sqrt{g_{\alpha \beta} d V^{\alpha} d V^{\beta}} \sqrt{g_{\alpha \beta} d W^{\alpha} d W^{\beta}}}$ |
| mielke-geometrodynamics_EQ0323 (5.2.7) | 111 | 1.000 | `\begin{aligned} \Sigma_{\alpha} \rightarrow \sigma_{ \alpha} & \left.:=\Sigma_{\alpha}-D \mu_{\alpha}+e_{ \beta}\right\rfloor\left(T^{\beta} \wedge \mu_{\alpha} \right), \\ \tau_{\alpha \beta} \rightarrow \hat{\tau}_{ \alpha \beta} & :=\tau_{\alpha \beta}-\vartheta_{[\alpha} \wedge \mu_{\beta]}=0 \end{aligned}` | $\begin{aligned} \Sigma_{\alpha} \rightarrow \sigma_{ \alpha} & \left.:=\Sigma_{\alpha}-D \mu_{\alpha}+e_{ \beta}\right\rfloor\left(T^{\beta} \wedge \mu_{\alpha} \right), \\ \tau_{\alpha \beta} \rightarrow \hat{\tau}_{ \alpha \beta} & :=\tau_{\alpha \beta}-\vartheta_{[\alpha} \wedge \mu_{\beta]}=0 \end{aligned}$ | $\begin{aligned} \Sigma_{\alpha} \rightarrow \sigma_{ \alpha} & \left.:=\Sigma_{\alpha}-D \mu_{\alpha}+e_{ \beta}\right\rfloor\left(T^{\beta} \wedge \mu_{\alpha} \right), \\ \tau_{\alpha \beta} \rightarrow \hat{\tau}_{ \alpha \beta} & :=\tau_{\alpha \beta}-\vartheta_{[\alpha} \wedge \mu_{\beta]}=0 \end{aligned}$ |
| mielke-geometrodynamics_EQ0328 (5.3.5) | 112 | 1.000 | `\Theta:=D \gamma \quad \text { and } \quad \Omega^{g}:=d \Gamma+\Gamma \wedge \Gamma .` | $\Theta:=D \gamma \quad \text { and } \quad \Omega^{g}:=d \Gamma+\Gamma \wedge \Gamma .$ | $\Theta:=D \gamma \quad \text { and } \quad \Omega^{g}:=d \Gamma+\Gamma \wedge \Gamma .$ |
| mielke-geometrodynamics_EQ0370 (6.2.21) | 127 | 1.000 | `\stackrel{( \pm)}{\Pi}_{\alpha}=-\partial \stackrel{( \pm)}{L} / \partial T^{\alpha}=H_{\alpha}^{\\|} \mp(i / \kappa) T_{\alpha}` | $\stackrel{(\pm)}{\Pi}_{\alpha}=-\partial \stackrel{(\pm)}{L} / \partial T^{\alpha}=H_{\alpha}^{\\|} \mp(i / \kappa) T_{\alpha}$ | $\stackrel{(\pm)}{\Pi}_{\alpha}=-\partial \stackrel{(\pm)}{L} / \partial T^{\alpha}=H_{\alpha}^{\\|} \mp(i / \kappa) T_{\alpha}$ |
| mielke-geometrodynamics_EQ0380 (6.2.31) | 129 | 1.000 | `\stackrel{( \pm)( \pm)}{D} \Pi_{\alpha}=0,` | $\stackrel{(\pm)(\pm)}{D} \Pi_{\alpha}=0,$ | $\stackrel{(\pm)(\pm)}{D} \Pi_{\alpha}=0,$ |
| mielke-geometrodynamics_EQ0428 (6.7.10) | 141 | 1.000 | `\kappa D \theta_{\mathrm{L}} \wedge D T_{\beta}=-T \wedge \eta_{\beta}=D \eta_{\beta},` | $\kappa D \theta_{\mathrm{L}} \wedge D T_{\beta}=-T \wedge \eta_{\beta}=D \eta_{\beta},$ | $\kappa D \theta_{\mathrm{L}} \wedge D T_{\beta}=-T \wedge \eta_{\beta}=D \eta_{\beta},$ |

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| mielke-geometrodynamics_EQ0522 (7.7.41) | 167 | ■ 1.000 | \begin{gathered} K^{(\star)}:=\eta_{\alpha \beta \gamma} \wedge K^{\beta \gamma} \gamma^{\alpha}, \\ \Omega^{g(\star)}:=\frac{i}{8} R_{\alpha \beta} \eta^{\alpha \beta \gamma \delta} \sigma_{\gamma \delta}=-\frac{1}{4} R^{\alpha \beta} \gamma_{5} \sigma_{\alpha \beta}=i \gamma_{5} \Omega^{g} . \end{gathered} | $$K^{(\star)} := \eta_{\alpha\beta\gamma} \wedge K^{\beta\gamma}\gamma^{\alpha},$$ $$\Omega^{g(\star)} := \frac{i}{8} R_{\alpha\beta}\eta^{\alpha\beta\gamma\delta}\sigma_{\gamma\delta} = -\frac{1}{4} R^{\alpha\beta}\gamma_5\sigma_{\alpha\beta} = i\gamma_5\Omega^g.$$ | $$K^{(\star)} := \eta_{\alpha\beta\gamma} \wedge K^{\beta\gamma}\gamma^{\alpha},$$ $$\Omega^{g(\star)} := \frac{i}{8} R_{\alpha\beta}\eta^{\alpha\beta\gamma\delta}\sigma_{\gamma\delta} = -\frac{1}{4} R^{\alpha\beta}\gamma_5\sigma_{\alpha\beta} = i\gamma_5\Omega^g.$$ |
| mielke-geometrodynamics_EQ0526 (7.7.46) | 168 | ■ 1.000 | L_{\mathrm{NY}}:=d C_{\mathrm{TT}}=\frac{1}{2 \ell^{2}} \left(T^{\alpha} \wedge T_{\alpha}+R_{\alpha \beta} \wedge \vartheta^{\alpha} \wedge \vartheta^{\beta} \right), | $$L_{\mathrm{NY}} := dC_{\mathrm{TT}} = \frac{1}{2\ell^2}\left(T^\alpha \wedge T_\alpha + R_{\alpha\beta} \wedge \vartheta^\alpha \wedge \vartheta^\beta\right),$$ | $$L_{\mathrm{NY}} := dC_{\mathrm{TT}} = \frac{1}{2\ell^2}\left(T^\alpha \wedge T_\alpha + R_{\alpha\beta} \wedge \vartheta^\alpha \wedge \vartheta^\beta\right),$$ |
| mielke-geometrodynamics_EQ0535 (8.2.2) | 175 | ■ 1.000 | \widetilde{\Gamma}:=\Gamma \oplus C, \quad \widetilde{\Omega}^{g}:=\Omega^{g} \oplus \Psi \oplus \Phi . | $\widetilde{\Gamma} := \Gamma \oplus C, \quad \widetilde{\Omega}^g := \Omega^g \oplus \Psi \oplus \Phi.$ | $\widetilde{\Gamma} := \Gamma \oplus C, \quad \widetilde{\Omega}^g := \Omega^g \oplus \Psi \oplus \Phi.$ |
| mielke-geometrodynamics_EQ0538 (8.2.5) | 176 | ■ 1.000 | s_{\mathrm{loc}}(\alpha+\lambda)=-d \lambda, \quad s_{\mathrm{loc}} \lambda=0 | $s_{\mathrm{loc}}(\alpha+\lambda) = -d\lambda, \quad s_{\mathrm{loc}}\lambda = 0$ | $s_{\mathrm{loc}}(\alpha+\lambda) = -d\lambda, \quad s_{\mathrm{loc}}\lambda = 0$ |
| mielke-geometrodynamics_EQ0539 (8.2.6) | 176 | ■ 1.000 | \left(d \oplus s_{\mathrm{loc}}\right)(\alpha+\lambda)=d \alpha . | $(d \oplus s_{\mathrm{loc}})(\alpha+\lambda) = d\alpha.$ | $(d \oplus s_{\mathrm{loc}})(\alpha+\lambda) = d\alpha.$ |
| mielke-geometrodynamics_EQ0573 (8.6.11) | 185 | ■ 1.000 | \begin{aligned} L_{\mathrm{qPG}}(* *)= & \frac{\Lambda}{ \ell^{2}} \eta-\frac{a_{0}}{4 \ell^{2}} R^{\alpha \beta} \wedge \eta_{\alpha \beta}-\frac{1}{2} T^{\alpha} \wedge H_{\alpha}(* *)-\frac{1}{2} R^{\alpha \beta} \wedge H_{\alpha \beta}(* *) \\ = & \frac{\Lambda}{ \ell^{2}} \eta-\frac{\theta_{\mathrm{T}}^{*}+a_{0}}{4 \ell^{2}} R^{\alpha \beta} \wedge \eta_{\alpha \beta}-\frac{1}{2 \ell^{2}} T^{\alpha} \wedge\left[\theta_{ \mathrm{T}}^{*} K_{\alpha}^{(\star)}-\theta_{\mathrm{T}} T_{\alpha}\right] \\ & -\frac{1}{2} R^{\alpha \beta} \wedge\left[\theta_{\mathrm{L}} R_{\alpha \beta}+\theta_{\mathrm{L}}^{\star} R_{\alpha \beta}^{(\star)}-\frac{\theta_{\mathrm{T}}}{2 \ell^{2}} \vartheta_{\alpha} \wedge \vartheta_{\beta}\right] . \end{aligned} | $$\begin{aligned} L_{\mathrm{qPG}}(**) = & \frac{\Lambda}{\ell^2}\eta - \frac{a_0}{4\ell^2}R^{\alpha\beta}\wedge\eta_{\alpha\beta} - \frac{1}{2}T^\alpha\wedge H_\alpha(**) - \frac{1}{2}R^{\alpha\beta}\wedge H_{\alpha\beta}(**) \\ = & \frac{\Lambda}{\ell^2}\eta - \frac{\theta_{\mathrm{T}}^* + a_0}{4\ell^2}R^{\alpha\beta}\wedge\eta_{\alpha\beta} - \frac{1}{2\ell^2}T^\alpha\wedge\left[\theta_{\mathrm{T}}^* K_\alpha^{(\star)} - \theta_{\mathrm{T}}T_\alpha\right] \\ & -\frac{1}{2}R^{\alpha\beta}\wedge\left[\theta_{\mathrm{L}}R_{\alpha\beta} + \theta_{\mathrm{L}}^\star R_{\alpha\beta}^{(\star)} - \frac{\theta_{\mathrm{T}}}{2\ell^2}\vartheta_\alpha\wedge\vartheta_\beta\right]. \end{aligned}$$ | $$\begin{aligned} L_{\mathrm{qPG}}(**) = & \frac{\Lambda}{\ell^2}\eta - \frac{a_0}{4\ell^2}R^{\alpha\beta}\wedge\eta_{\alpha\beta} - \frac{1}{2}T^\alpha\wedge H_\alpha(**) - \frac{1}{2}R^{\alpha\beta}\wedge H_{\alpha\beta}(**) \\ = & \frac{\Lambda}{\ell^2}\eta - \frac{\theta_{\mathrm{T}}^* + a_0}{4\ell^2}R^{\alpha\beta}\wedge\eta_{\alpha\beta} - \frac{1}{2\ell^2}T^\alpha\wedge\left[\theta_{\mathrm{T}}^* K_\alpha^{(\star)} - \theta_{\mathrm{T}}T_\alpha\right] \\ & -\frac{1}{2}R^{\alpha\beta}\wedge\left[\theta_{\mathrm{L}}R_{\alpha\beta} + \theta_{\mathrm{L}}^\star R_{\alpha\beta}^{(\star)} - \frac{\theta_{\mathrm{T}}}{2\ell^2}\vartheta_\alpha\wedge\vartheta_\beta\right]. \end{aligned} \quad (8.6$$ |
| mielke-geometrodynamics_EQ0580 (8.6.18) | 186 | ■ 1.000 | G_{\alpha}^{\{ \}}-\Lambda_{\text {eff }} \eta_{\alpha}= \kappa_{\text {eff }} \overparen{\Sigma}_{\alpha} . | $G_\alpha^{\{\}} - \Lambda_{\text{eff}}\,\eta_\alpha = \kappa_{\text{eff}}\,\widehat{\Sigma}_\alpha.$ | $G_\alpha^{\{\}} - \Lambda_{\text{eff}}\,\eta_\alpha = \kappa_{\text{eff}}\,\widehat{\Sigma}_\alpha.$ |
| mielke-geometrodynamics_EQ0595 (9.1.13) | 195 | ■ 1.000 | R^{\{ \}}=-\frac{6 \kappa \gamma}{\ell^{* 2}} . | $R^{\{\}} = -\frac{6\kappa\gamma}{\ell^{*2}}.$ | $R^{\{\}} = -\frac{6\kappa\gamma}{\ell^{*2}}.$ |
| mielke-geometrodynamics_EQ0645 (10.3.2) | 214 | ■ 1.000 | \widetilde{T}_{\alpha}=T_{\alpha}-\frac{\varepsilon}{ \ell} \eta_{\alpha}, \quad \widetilde{R}_{\alpha}^{\star}=R_{\alpha}^{\star}-(-1)^{s} \frac{\varepsilon}{2 \ell} T_{\alpha}+(-1)^{s} \frac{\varepsilon^{2}}{4 \ell^{2}} \eta_{\alpha} | $\widetilde{T}_\alpha = T_\alpha - \frac{\varepsilon}{\ell}\eta_\alpha, \quad \widetilde{R}_\alpha^\star = R_\alpha^\star - (-1)^s\frac{\varepsilon}{2\ell}T_\alpha + (-1)^s\frac{\varepsilon^2}{4\ell^2}\eta_\alpha$ | $\widetilde{T}_\alpha = T_\alpha - \frac{\varepsilon}{\ell}\eta_\alpha, \quad \widetilde{R}_\alpha^\star = R_\alpha^\star - (-1)^s\frac{\varepsilon}{2\ell}T_\alpha + (-1)^s\frac{\varepsilon^2}{4\ell^2}\eta_\alpha$ |
| mielke-geometrodynamics_EQ0676 (10.3.33) | 220 | ■ 1.000 | \check{\mathscr{E}}_{\alpha}^{\mathrm{MB}}=-(-1)^{s} \frac{\theta_{\mathrm{T}} \theta_{\mathrm{L}}}{2 \chi \ell}\left(d \Gamma_{\alpha}^{\star}+\frac{2}{\theta_{ \mathrm{L}}} \check{\mathscr{J}}_{\alpha}^{\mathrm{MB} \star}\right), | $\check{\mathscr{E}}_\alpha^{\mathrm{MB}} = -(-1)^s\frac{\theta_{\mathrm{T}}\theta_{\mathrm{L}}}{2\chi\ell}\left(d\Gamma_\alpha^\star + \frac{2}{\theta_{\mathrm{L}}}\check{\mathscr{J}}_\alpha^{\mathrm{MB}\star}\right),$ | $\check{\mathscr{E}}_\alpha^{\mathrm{MB}} = -(-1)^s\frac{\theta_{\mathrm{T}}\theta_{\mathrm{L}}}{2\chi\ell}\left(d\Gamma_\alpha^\star + \frac{2}{\theta_{\mathrm{L}}}\check{\mathscr{J}}_\alpha^{\mathrm{MB}\star}\right),$ |

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| mielke-geometrodynamics_EQ0688 (10.3.46) | 222 | 1.000 | G_{\alpha}^{\{ \}}-\tilde{\Lambda} \eta_{\alpha}=\ell \widetilde{\Sigma}_{\alpha}, | $G_{\alpha}^{\{\}} - \tilde{\Lambda}\eta_{\alpha} = \ell\widetilde{\Sigma}_{\alpha},$ | $G_{\alpha}^{\{\}} - \tilde{\Lambda}\eta_{\alpha} = \ell\,\widetilde{\Sigma}_{\alpha},$ |
| mielke-geometrodynamics_EQ0690 (10.5.1) | 223 | 1.000 | \sigma^{1}=\left(\begin{array}{ll} 0 & 1 \\ 1 & 0 \end{array}\right), \quad \sigma^{2}=\left( \begin{array}{cc} 0 & -i \\ i & 0 \end{array}\right), \quad \sigma^{3}=\left(\begin{array}{cc} 1 & 0 \\ 0 & -1 \end{array}\right) . | $\sigma^1 = \begin{pmatrix} 0 & 1 \\ 1 & 0 \end{pmatrix}, \quad \sigma^2 = \begin{pmatrix} 0 & -i \\ i & 0 \end{pmatrix}, \quad \sigma^3 = \begin{pmatrix} 1 & 0 \\ 0 & -1 \end{pmatrix}.$ | $\sigma^1 = \begin{pmatrix} 0 & 1 \\ 1 & 0 \end{pmatrix}, \quad \sigma^2 = \begin{pmatrix} 0 & -i \\ i & 0 \end{pmatrix}, \quad \sigma^3 = \begin{pmatrix} 1 & 0 \\ 0 & -1 \end{pmatrix}.$ |
| mielke-geometrodynamics_EQ0710 (10.7.6) | 227 | 1.000 | \begin{aligned} \vartheta^{\hat{0}} & =d t+\ell^{2} \sigma \rho^{* 2}\left[1-\cos \left(\rho / \rho^{*} \right)\right] d \phi \\ \vartheta^{\hat{1}} & =d \rho, \quad \vartheta^{\hat{2}}=\rho^{*} \sin \left(\rho / \rho^{*}\right) d \phi \\ \Gamma^{\hat{1} \hat{2}} & = \cos \left(\rho / \rho^{*}\right) d \phi=-\Gamma^{\hat{2} \hat{1}} \end{aligned} | $\begin{aligned} \vartheta^{\hat{0}} & =d t+\ell^{2} \sigma \rho^{* 2}\left[1-\cos \left(\rho / \rho^{*}\right)\right] d \phi \\ \vartheta^{\hat{1}} & =d \rho, \quad \vartheta^{\hat{2}}=\rho^{*} \sin \left(\rho / \rho^{*}\right) d \phi \\ \Gamma^{\hat{1} \hat{2}} & = \cos \left(\rho / \rho^{*}\right) d \phi=-\Gamma^{\hat{2} \hat{1}} \end{aligned}$ | $\begin{aligned} \vartheta^{\hat{0}} & =d t+\ell^{2} \sigma \rho^{* 2}\left[1-\cos \left(\rho / \rho^{*}\right)\right] d \phi \\ \vartheta^{\hat{1}} & =d \rho, \quad \vartheta^{\hat{2}}=\rho^{*} \sin \left(\rho / \rho^{*}\right) d \phi, \\ \Gamma^{\hat{1} \hat{2}} & = \cos \left(\rho / \rho^{*}\right) d \phi=-\Gamma^{\hat{2} \hat{1}} . \end{aligned}$ |
| mielke-geometrodynamics_EQ0716 (10.9.2) | 229 | 1.000 | D \Psi=d \Psi-\frac{1}{2} \gamma_{\alpha} \Gamma^{\star \alpha} \wedge \Psi, | $D\Psi = d\Psi - \frac{1}{2}\gamma_{\alpha}\Gamma^{\star\alpha} \wedge \Psi,$ | $D\Psi = d\Psi - \frac{1}{2}\gamma_{\alpha}\Gamma^{\star\alpha} \wedge \Psi,$ |
| mielke-geometrodynamics_EQ0720 (10.9.6) | 229 | 1.000 | \tau_{\alpha}^{\star}:=\frac{1}{2} \eta_{\alpha \beta \gamma} \tau^{\beta \gamma}=\frac{(-1)^{s}}{2} \frac{ \delta L_{\Psi}}{\delta \Gamma_{\alpha}^{\star}}= \frac{(-1)^{s}}{2} \frac{i}{4} \bar{\Psi} \wedge \gamma_{ \alpha} \Psi . | $\tau_{\alpha}^{\star} := \frac{1}{2}\eta_{\alpha\beta\gamma}\tau^{\beta\gamma} = \frac{(-1)^s}{2}\frac{\delta L_\Psi}{\delta\Gamma_\alpha^\star} = \frac{(-1)^s}{2}\frac{i}{4}\bar{\Psi}\wedge\gamma_\alpha\Psi.$ | $\tau_{\alpha}^{\star} := \frac{1}{2}\eta_{\alpha\beta\gamma}\tau^{\beta\gamma} = \frac{(-1)^s}{2}\frac{\delta L_\Psi}{\delta\Gamma_\alpha^\star} = \frac{(-1)^s}{2}\frac{i}{4}\overline{\Psi}\wedge\gamma_\alpha\Psi .$ |
| mielke-geometrodynamics_EQ0728 (10.10.8) | 231 | 1.000 | \gamma^{\alpha} \Psi \wedge \bar{\Psi} \gamma_{\alpha} \Psi=0, | $\gamma^\alpha\Psi\wedge\bar{\Psi}\gamma_\alpha\Psi = 0,$ | $\gamma^\alpha\Psi\wedge\overline{\Psi}\gamma_\alpha\Psi = 0,$ |
| mielke-geometrodynamics_EQ0770 (11.1.37) | 244 | 1.000 | D \longrightarrow{ }^{S^{-1}} D=S^{-1} D S . | $D \longrightarrow^{S^{-1}} D = S^{-1}DS.$ | $D \longrightarrow^{S^{-1}} D = S^{-1}DS.$ |
| mielke-geometrodynamics_EQ0839 (12.2.7) | 272 | 1.000 | j_{ \pm}:=\frac{1}{2} \bar{\psi}\left(1 \pm \gamma_{5} \right)^{*} \gamma \psi=\bar{\psi}_{\mathrm{L}, \mathrm{R}}{ }^{*} \gamma \psi_{\mathrm{L}, \mathrm{R}} . | $j_\pm := \frac{1}{2}\bar{\psi}\left(1\pm\gamma_5\right)^*\gamma\psi = \bar{\psi}_{\mathrm{L,R}}{}^*\gamma\psi_{\mathrm{L,R}}.$ | $j_\pm := \frac{1}{2}\bar{\psi}\left(1\pm\gamma_5\right)^*\gamma\psi = \bar{\psi}_{\mathrm{L,R}}{}^*\gamma\psi_{\mathrm{L,R}}.$ |
| mielke-geometrodynamics_EQ0873 (13.3.1) | 284 | 1.000 | \nvdash^{A}{ }_{B}:=L^{A}{ }_{B}-\frac{1}{n} \delta_{B}^{A} L^{C}{ }_{C} . | $\not{L}^A{}_B := L^A{}_B - \frac{1}{n}\delta^A_B L^C{}_C.$ | $\not{L}^A{}_B := L^A{}_B - \frac{1}{n}\delta^A_B L^C{}_C.$ |
| mielke-geometrodynamics_EQ0893 (13.4.12) | 287 | 1.000 | \mathrm{A}_{*}(n, \mathbb{R}) / \operatorname{GL}(n, \mathbb{R}) \approx \mathbb{R}^{n} \otimes \mathbb{R}_{*}^{n}, | $\mathrm{A}_*(n,\mathbb{R})/\operatorname{GL}(n,\mathbb{R}) \approx \mathbb{R}^n \otimes \mathbb{R}^n_*,$ | $\mathrm{A}_*(n,\mathbb{R})/\operatorname{GL}(n,\mathbb{R}) \approx \mathbb{R}^n \otimes \mathbb{R}^n_*,$ |
| mielke-geometrodynamics_EQ0907 (13.5.12) | 290 | 1.000 | \tilde{L}_{\mathrm{SSB}}+d \hat{C} \cong \frac{1}{2 \mu} \eta_{\alpha \beta \gamma \delta}\left[R^{\alpha \beta}-\frac{\Lambda}{3} \vartheta^{\alpha} \wedge \vartheta^{\beta}\right] \wedge\left[R^{\gamma \delta}- \frac{\Lambda}{3} \vartheta^{\gamma} \wedge \vartheta^{ \delta}\right] . | $\tilde{L}_{\mathrm{SSB}} + d\hat{C} \cong \frac{1}{2\mu}\eta_{\alpha\beta\gamma\delta}\left[R^{\alpha\beta} - \frac{\Lambda}{3}\vartheta^\alpha\wedge\vartheta^\beta\right]\wedge\left[R^{\gamma\delta} - \frac{\Lambda}{3}\vartheta^\gamma\wedge\vartheta^\delta\right].$ | $\tilde{L}_{\mathrm{SSB}} + d\hat{C} \cong \frac{1}{2\mu}\eta_{\alpha\beta\gamma\delta}\left[R^{\alpha\beta} - \frac{\Lambda}{3}\vartheta^\alpha\wedge\vartheta^\beta\right]\wedge\left[R^{\gamma\delta} - \frac{\Lambda}{3}\vartheta^\gamma\wedge\vartheta^\delta\right].$ |
| mielke-geometrodynamics_EQ0947 (14.1.28) | 307 | 1.000 | R_{i \alpha}^{\{ \}} R_{\cdot j}^{\{ \} \alpha}= \frac{1}{4} g_{i j} R_{\alpha \beta}^{\{ \}} R^{\{ \} \alpha \beta} | $R_{i\alpha}^{\{\}} R_{\cdot j}^{\{\}\alpha} = \frac{1}{4} g_{ij} R_{\alpha\beta}^{\{\}} R^{\{\}\alpha\beta}$ | $R_{i\alpha}^{\{\}} R_{\cdot j}^{\{\}\alpha} = \frac{1}{4} g_{ij} R_{\alpha\beta}^{\{\}} R^{\{\}\alpha\beta}$ |
| mielke-geometrodynamics_EQ1004 (14.3.17) | 323 | 1.000 | \widetilde{\Theta}:=D \gamma=\frac{1}{2} T_{\alpha \beta}^{. . c} \gamma_{c} \otimes \vartheta^{\alpha} \wedge \vartheta^{\beta} | $\widetilde{\Theta} := D\gamma = \frac{1}{2}T_{\alpha\beta}^{\cdot\cdot c}\gamma_c \otimes \vartheta^\alpha \wedge \vartheta^\beta$ | $\widetilde{\Theta} := D\gamma = \frac{1}{2}T_{\alpha\beta}^{\cdot\cdot c}\,\gamma_c \otimes \vartheta^\alpha \wedge \vartheta^\beta$ |

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| mielke-geometrodynamics_EQ1013 (14.4.8) | 326 | ■1.000 | M_{\mathrm{ir}}^{2}:=\frac{S_{\mathrm{A}}}{16 \pi} \frac{M^{* 4} c^{2}}{\hbar^{2}} | $M_{\mathrm{ir}}^{2} := \frac{S_{\mathrm{A}}}{16\pi} \frac{M^{*4} c^{2}}{\hbar^{2}}$ | $M_{\mathrm{ir}}{}^{2} := \frac{S_{\mathrm{A}}}{16\pi} \frac{M^{*4} c^{2}}{\hbar^{2}}$ |
| mielke-geometrodynamics_EQ1135 (C.3) | 375 | ■1.000 | \left[I_{i}, I_{j}\right]=c_{i j}{ }^{k} I_{k} . | $\left[I_{i}, I_{j}\right]=c_{i j}{}^{k} I_{k} .$ | $\left[I_{i}, I_{j}\right]=c_{i j}{}^{k} I_{k} .$ |
| mielke-geometrodynamics_EQ0001 (1.1) | 24 | ■1.000 | \ell^{*}:=\sqrt{8 \pi \hbar G_{N} / c^{3}} \simeq 8 \times 10^{-33} \mathrm{~cm}, | $\ell^{*} := \sqrt{8 \pi \hbar G_{N} / c^{3}} \simeq 8 \times 10^{-33} \mathrm{~cm},$ | $\ell^{*} := \sqrt{8 \pi \hbar G_{N} / c^{3}} \simeq 8 \times 10^{-33} \mathrm{cm},$ |
| mielke-geometrodynamics_EQ0003 (2.1.2) | 32 | ■1.000 | e^{\mathrm{f}}:=\left.\frac{d f(s(t))}{d t} \right\|_{t_{o}=s^{-1}(m)}=\frac{\partial \mathrm{f}}{ \partial x^{i}} \cdot \frac{d x^{i}(s(t))}{d t} | $e^{\mathrm{f}} := \left.\frac{d f(s(t))}{d t}\right\|_{t_{o}=s^{-1}(m)} = \frac{\partial \mathrm{f}}{\partial x^{i}} \cdot \frac{d x^{i}(s(t))}{d t}$ | $e^{\mathrm{f}} := \left.\frac{d f(s(t))}{d t}\right\|_{t_{o}=s^{-1}(m)} = \frac{\partial \mathrm{f}}{\partial x^{i}} \cdot \frac{d x^{i}(s(t))}{d t}$ |
| mielke-geometrodynamics_EQ0005 (2.1.4) | 33 | ■1.000 | T(M)=\bigcup_{m \in M} T_{m}(M) | $T(M)=\bigcup_{m \in M} T_{m}(M)$ | $T(M)=\bigcup_{m \in M} T_{m}(M).$ |
| mielke-geometrodynamics_EQ0008 (2.2.3) | 34 | ■1.000 | \vartheta^{\alpha}=\mathrm{E}_{j}^{\alpha}(m) d x^{j} . | $\vartheta^{\alpha}=\mathrm{E}_{j}^{\alpha}(m) d x^{j} .$ | $\vartheta^{\alpha}=\mathrm{E}_{j}^{\alpha}(m) d x^{j} .$ |
| mielke-geometrodynamics_EQ0011 (2.2.6) | 34 | ■1.000 | T=T_{\alpha_{1} \cdots \alpha_{p}}^{\beta_{1} \cdots \beta_{q}}(m) \vartheta^{\alpha_{1}} \otimes \cdots \otimes \vartheta^{\alpha_{p}} \otimes e_{\beta_{1}} \otimes \cdots \otimes e_{\beta_{q}} \in C^{\infty} \left(T_{p}^{q}(M)\right) . | $T=T_{\alpha_{1} \cdots \alpha_{p}}^{\beta_{1} \cdots \beta_{q}}(m) \vartheta^{\alpha_{1}} \otimes \cdots \otimes \vartheta^{\alpha_{p}} \otimes e_{\beta_{1}} \otimes \cdots \otimes e_{\beta_{q}} \in C^{\infty}\left(T_{p}^{q}(M)\right) .$ | $T=T_{\alpha_{1} \cdots \alpha_{p}}^{\beta_{1} \cdots \beta_{q}}(m) \vartheta^{\alpha_{1}} \otimes \cdots \otimes \vartheta^{\alpha_{p}} \otimes e_{\beta_{1}} \otimes \cdots \otimes e_{\beta_{q}} \in C^{\infty}\left(T_{p}^{q}(M)\right) .$ |
| mielke-geometrodynamics_EQ0012 (2.2.7) | 34 | ■1.000 | d s^{2}=g_{\alpha \beta} \vartheta^{\alpha} \otimes_{s} \vartheta^{\beta}=: g_{i j} d x^{i} \otimes_{s} d x^{j} . | $d s^{2}=g_{\alpha \beta} \vartheta^{\alpha} \otimes_{s} \vartheta^{\beta}=: g_{i j} d x^{i} \otimes_{s} d x^{j} .$ | $d s^{2}=g_{\alpha \beta} \vartheta^{\alpha} \otimes_{s} \vartheta^{\beta}=: g_{i j} d x^{i} \otimes_{s} d x^{j} .$ |
| mielke-geometrodynamics_EQ0014 (2.2.9) | 35 | ■1.000 | \alpha^{(p)}=\frac{1}{p!} A_{\alpha_{1} \cdots \alpha_{p}} \vartheta^{\alpha_{1}} \wedge \cdots \wedge \vartheta^{\alpha_{p}} \in C^{\infty}\left(\wedge^{p} T^{*}(M)\right) . | $\alpha^{(p)}=\frac{1}{p!} A_{\alpha_{1} \cdots \alpha_{p}} \vartheta^{\alpha_{1}} \wedge \cdots \wedge \vartheta^{\alpha_{p}} \in C^{\infty}\left(\wedge^{p} T^{*}(M)\right) .$ | $\alpha^{(p)}=\frac{1}{p!} A_{\alpha_{1} \cdots \alpha_{p}} \vartheta^{\alpha_{1}} \wedge \cdots \wedge \vartheta^{\alpha_{p}} \in C^{\infty}\left(\wedge^{p} T^{*}(M)\right) .$ |
| mielke-geometrodynamics_EQ0015 (2.3.1) | 36 | ■1.000 | \pi: F \rightarrow M . | $\pi: F \rightarrow M .$ | $\pi: F \rightarrow M .$ |
| mielke-geometrodynamics_EQ0016 (2.3.2) | 37 | ■1.000 | \sigma: U \rightarrow F \quad \text { where } \quad \pi \circ \sigma=\mathrm{id} | $\sigma: U \rightarrow F \quad \text { where } \quad \pi \circ \sigma=\mathrm{id}$ | $\sigma: U \rightarrow F \quad \text { where } \quad \pi \circ \sigma=\mathrm{id}$ |
| mielke-geometrodynamics_EQ0017 (2.3.3) | 37 | ■1.000 | \iota\left(m, g_{1} g_{2}\right)=\iota\left(m, g_{1} \right) \cdot g_{2}, \quad m \in U, g \in G . | $\iota\left(m, g_{1} g_{2}\right)=\iota\left(m, g_{1}\right) \cdot g_{2}, \quad m \in U, g \in G .$ | $\iota\left(m, g_{1} g_{2}\right)=\iota\left(m, g_{1}\right) \cdot g_{2}, \quad m \in U, g \in G .$ |
| mielke-geometrodynamics_EQ0019 (2.4.1) | 38 | ■1.000 | \delta_{g}(p, \zeta):=\left(p g, g^{-1} \zeta\right) \subset P \times F, \quad g \in G . | $\delta_{g}(p, \zeta):=\left(p g, g^{-1} \zeta\right) \subset P \times F, \quad g \in G .$ | $\delta_{g}(p, \zeta):=\left(p g, g^{-1} \zeta\right) \subset P \times F, \quad g \in G .$ |
| mielke-geometrodynamics_EQ0022 (2.4.4) | 38 | ■1.000 | \varphi^{(p)}=\left\{\varphi^{(p) A} \mid A=1, \ldots, N \right\} . | $\varphi^{(p)}=\left\{\varphi^{(p) A} \mid A=1, \ldots, N\right\} .$ | $\varphi^{(p)}=\left\{\varphi^{(p) A} \mid A=1, \ldots, N\right\} .$ |
| mielke-geometrodynamics_EQ0023 (2.4.5) | 39 | ■1.000 | L_{j}:=\left[\left.\frac{\partial \rho_{A}{ }^{B}(g( \xi))}{\partial \xi^{j}}\right\|_{g=e}\right] \in T_{e}( \rho(G)) | $L_{j}:=\left[\left.\frac{\partial \rho_{A}{}^{B}(g(\xi))}{\partial \xi^{j}}\right\|_{g=e}\right] \in T_{e}(\rho(G))$ | $L_{j}:=\left[\left.\frac{\partial \rho_{A}{}^{B}(g(\xi))}{\partial \xi^{j}}\right\|_{g=e}\right] \in T_{e}(\rho(G))$ |
| mielke-geometrodynamics_EQ0025 (2.4.7) | 39 | ■1.000 | \phi^{(p)}=\frac{1}{p!} \phi_{\alpha_{1} \ldots \alpha_{p}}^{j} L_{j} \otimes \vartheta^{\alpha_{1}} \wedge \cdots \wedge \vartheta^{\alpha_{p}} \in C^{ \infty}\left(\wedge^{p} T_{\mathbb{C}}^{*}(M) \otimes V^{A d}\right) . | $\phi^{(p)}=\frac{1}{p!} \phi_{\alpha_{1} \ldots \alpha_{p}}^{j} L_{j} \otimes \vartheta^{\alpha_{1}} \wedge \cdots \wedge \vartheta^{\alpha_{p}} \in C^{\infty}\left(\wedge^{p} T_{\mathbb{C}}^{*}(M) \otimes V^{A d}\right) .$ | $\phi^{(p)}=\frac{1}{p!} \phi_{\alpha_{1} \ldots \alpha_{p}}^{j} L_{j} \otimes \vartheta^{\alpha_{1}} \wedge \cdots \wedge \vartheta^{\alpha_{p}} \in C^{\infty}\left(\wedge^{p} T_{\mathbb{C}}^{*}(M) \otimes V^{A d}\right) .$ |
| mielke-geometrodynamics_EQ0026 (2.4.8) | 39 | ■1.000 | \left[\phi^{(p)}, \psi^{(q)}\right]:=\phi^{(p)} \wedge \psi^{(q)}-(-1)^{p q} \psi^{(q)} \wedge \phi^{(p)}=(-1)^{p q+1}\left[\psi^{(q)}, \phi^{(p)} \right] | $\left[\phi^{(p)}, \psi^{(q)}\right]:=\phi^{(p)} \wedge \psi^{(q)}-(-1)^{p q} \psi^{(q)} \wedge \phi^{(p)}=(-1)^{p q+1}\left[\psi^{(q)}, \phi^{(p)}\right]$ | $\left[\phi^{(p)}, \psi^{(q)}\right]:=\phi^{(p)} \wedge \psi^{(q)}-(-1)^{p q} \psi^{(q)} \wedge \phi^{(p)}=(-1)^{p q+1}\left[\psi^{(q)}, \phi^{(p)}\right]$ |

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| mielke-geometrodynamics_EQ0027 (2.4.9) | 39 | 1.000 | `\left[\phi^{(2 k)}, \phi^{(2 k)}\right]=-\left[\phi^{(2 k)}, \phi^{(2 k)}\right]=0 .` | $\left[\phi^{(2k)}, \phi^{(2k)}\right] = -\left[\phi^{(2k)}, \phi^{(2k)}\right] = 0.$ | $\left[\phi^{(2k)}, \phi^{(2k)}\right] = -\left[\phi^{(2k)}, \phi^{(2k)}\right] = 0.$ |
| mielke-geometrodynamics_EQ0029 (2.5.2) | 40 | 1.000 | `\omega(e g)=g^{-1} \omega(e) g, \quad e \in T(P) .` | $\omega(eg) = g^{-1}\omega(e)g, \quad e \in T(P).$ | $\omega(eg) = g^{-1}\omega(e)g, \quad e \in T(P).$ |
| mielke-geometrodynamics_EQ0030 (2.5.3) | 40 | 1.000 | `\omega(p d g)=g^{-1} d g \quad \in \quad T_{e}(G) \approx \mathfrak{g}` | $\omega(pdg) = g^{-1}dg \quad \in \quad T_e(G) \approx \mathfrak{g}$ | $\omega(p\, dg) = g^{-1}dg \quad \in \quad T_e(G) \approx \mathfrak{g}$ |
| mielke-geometrodynamics_EQ0031 (2.5.4) | 40 | 1.000 | `D: C^{\infty}\left(V^{\rho}\right) \longrightarrow C^{\infty}\left(T_{\mathbb{C}}^{*}(M) \otimes V^{\rho}\right)` | $D : C^\infty\left(V^\rho\right) \longrightarrow C^\infty\left(T^*_{\mathbb{C}}(M) \otimes V^\rho\right)$ | $D : C^\infty(V^\rho) \longrightarrow C^\infty(T^*_{\mathbb{C}}(M) \otimes V^\rho)$ |
| mielke-geometrodynamics_EQ0032 (2.5.6) | 41 | 1.000 | `D b=\omega \otimes b, \quad b \in C^{\infty}\left(V^{\rho}\right) .` | $Db = \omega \otimes b, \quad b \in C^\infty\left(V^\rho\right).$ | $Db = \omega \otimes b, \quad b \in C^\infty(V^\rho).$ |
| mielke-geometrodynamics_EQ0033 (2.5.7) | 41 | 1.000 | `D\left(\varphi^{(p)} \otimes b\right)=d \varphi^{(p)} \otimes b+(-1)^{p} \varphi^{(p)} \otimes D b .` | $D\left(\varphi^{(p)} \otimes b\right) = d\varphi^{(p)} \otimes b + (-1)^p \varphi^{(p)} \otimes Db.$ | $D(\varphi^{(p)} \otimes b) = d\varphi^{(p)} \otimes b + (-1)^p \varphi^{(p)} \otimes Db.$ |
| mielke-geometrodynamics_EQ0034 (2.5.8) | 41 | 1.000 | `D\left(\varphi^{(p)} \otimes b\right)=\left\{d \varphi^{p}+(-1)^{p}\left[\varphi^{(p)}, \omega\right] \right\} \otimes b .` | $D\left(\varphi^{(p)} \otimes b\right) = \left\{d\varphi^p + (-1)^p\left[\varphi^{(p)}, \omega\right]\right\} \otimes b.$ | $D(\varphi^{(p)} \otimes b) = \left\{d\varphi^p + (-1)^p[\varphi^{(p)}, \omega]\right\} \otimes b.$ |
| mielke-geometrodynamics_EQ0035 (2.5.9) | 41 | 1.000 | `D b_{A}=\omega_{A}{ }^{B} b_{B}, A, B=1, \ldots, N .` | $Db_A = \omega_A{}^B b_B, A, B = 1, \ldots, N.$ | $Db_A = \omega_A{}^B b_B, A, B = 1, \ldots, N.$ |
| mielke-geometrodynamics_EQ0036 (2.5.10) | 41 | 1.000 | `\Gamma:=\stackrel{*}{\sigma} \omega=\Gamma_{\alpha}{ }^{j} L_{j} \otimes \vartheta^{\alpha}, \quad j=1, \ldots, \operatorname{dim} G,` | $\Gamma := \overset{*}{\sigma}\,\omega = \Gamma_\alpha{}^j L_j \otimes \vartheta^\alpha, \quad j = 1, \ldots, \operatorname{dim} G,$ | $\Gamma := \overset{*}{\sigma}\omega = \Gamma_\alpha{}^j L_j \otimes \vartheta^\alpha, \quad j = 1, \ldots, \operatorname{dim} G,$ |
| mielke-geometrodynamics_EQ0037 (2.5.11) | 41 | 1.000 | `A_{\alpha}{ }^{j}(m):=\Gamma_{\alpha}{ }^{j}(m)_{\mid G=U(f)}` | $A_\alpha{}^j(m) := \Gamma_\alpha{}^j(m)_{\mid G=U(f)}$ | $A_\alpha{}^j(m) := \Gamma_\alpha{}^j(m)_{\mid G=U(f)}$ |
| mielke-geometrodynamics_EQ0038 (2.6.1) | 42 | 1.000 | `D D b=: \Omega \otimes b .` | $DDb =: \Omega \otimes b.$ | $D\,Db =: \Omega \otimes b.$ |
| mielke-geometrodynamics_EQ0039 (2.6.2) | 42 | 1.000 | `\begin{aligned} D D b=D(\omega \otimes b) & =d \omega \otimes b-\omega \wedge D b \\ & =(d \omega-\omega \wedge \omega) \otimes b \end{aligned}` | $\begin{aligned} DDb = D(\omega \otimes b) &= d\omega \otimes b - \omega \wedge Db \\ &= (d\omega - \omega \wedge \omega) \otimes b \end{aligned}$ | $\begin{aligned} D\,Db = D(\omega \otimes b) &= d\omega \otimes b - \omega \wedge Db \\ &= (d\omega - \omega \wedge \omega) \otimes b \end{aligned}$ |
| mielke-geometrodynamics_EQ0040 (2.6.3) | 42 | 1.000 | `\Omega=d \omega-\omega \wedge \omega=d \omega-\frac{1}{2}[\omega, \omega]` | $\Omega = d\omega - \omega \wedge \omega = d\omega - \frac{1}{2}[\omega, \omega]$ | $\Omega = d\omega - \omega \wedge \omega = d\omega - \frac{1}{2}[\omega, \omega]\Big\vert.$ |
| mielke-geometrodynamics_EQ0043 (2.6.6) | 42 | 1.000 | `F_{i j}=\partial_{i} A_{j}-\partial_{j} A_{i}` | $F_{ij} = \partial_i A_j - \partial_j A_i$ | $F_{ij} = \partial_i A_j - \partial_j A_i$ |
| mielke-geometrodynamics_EQ0044 (2.6.7) | 42 | 1.000 | `\Delta b=b-b(\circ)=\oint(d b)_{\mathrm{hor}}` | $\Delta b = b - b(\circ) = \oint (db)_{\mathrm{hor}}$ | $\Delta b = b - b(\circ) = \oint (db)_{\mathrm{hor}},$ |
| mielke-geometrodynamics_EQ0047 (2.6.10) | 43 | 1.000 | `K=\lim _{U \rightarrow 0}\left(\int_{U} \Omega \otimes b \right) /\left(\int_{U} 1 \otimes b\right)` | $K = \lim_{U \to 0}\left(\int_U \Omega \otimes b\right) / \left(\int_U 1 \otimes b\right)$ | $K = \lim_{U \to 0}\left(\int_U \Omega \otimes b\right) \Big/ \left(\int_U 1 \otimes b\right)$ |
| mielke-geometrodynamics_EQ0049 (2.6.12) | 43 | 1.000 | `D \Omega \equiv 0` | $D\Omega \equiv 0$ | $D\Omega \equiv 0$ |
| mielke-geometrodynamics_EQ0052 (2.7.2) | 44 | 1.000 | `G(g p)=g G(p), \quad g \in G, \quad p \in P ;` | $G(gp) = gG(p), \quad g \in G, \quad p \in P;$ | $G(g\,p) = g\,G(p), \quad g \in G, \quad p \in P;$ |
| mielke-geometrodynamics_EQ0053 (2.7.3) | 44 | 1.000 | `\pi \circ G=\pi .` | $\pi \circ G = \pi.$ | $\pi \circ G = \pi.$ |
| mielke-geometrodynamics_EQ0054 (2.7.4) | 45 | 1.000 | `\mathscr{G}_{p} \approx C^{\infty}\left(P \times_{ \mathrm{Ad}} G\right) .` | $\mathscr{G}_p \approx C^\infty\left(P \times_{\mathrm{Ad}} G\right).$ | $\mathscr{G}_p \approx C^\infty(P \times_{\mathrm{Ad}} G).$ |
| mielke-geometrodynamics_EQ0055 (2.7.5) | 45 | 1.000 | `G(p)=\exp i \theta^{k}(m) L_{k} \in \mathscr{G}_{p} .` | $G(p) = \exp i\theta^k(m)L_k \in \mathscr{G}_p.$ | $G(p) = \exp i\,\theta^k(m)L_k \in \mathscr{G}_p.$ |

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| mielke-geometrodynamics_EQ0057 (2.7.7) | 45 | 1.000 | `\varphi \rightarrow^{G^{-1}} \varphi:=G^{-1} \varphi \quad \in C^{\infty}(M, \mathbb{C}), G \in \mathscr{G}_{V},` | $\varphi \rightarrow^{G^{-1}} \varphi:=G^{-1} \varphi \quad \in C^{\infty}(M, \mathbb{C}), G \in \mathscr{G}_{V},$ | $\varphi \rightarrow^{G^{-1}} \varphi:=G^{-1} \varphi \quad \in C^{\infty}(M, \mathbb{C}), G \in \mathscr{G}_{V},$ |
| mielke-geometrodynamics_EQ0063 (2.8.4) | 46 | 1.000 | `p_{k}\left(V^{\mathbb{R}}\right)=(-1)^{k} c_{2 k}(V) .` | $p_{k}\left(V^{\mathbb{R}}\right)=(-1)^{k} c_{2 k}(V) .$ | $p_{k}\left(V^{\mathbb{R}}\right)=(-1)^{k} c_{2 k}(V) .$ |
| mielke-geometrodynamics_EQ0066 (2.8.9) | 47 | 1.000 | `\operatorname{Tr}(\Omega \wedge \Omega)=d \operatorname{Tr}\left(\omega \wedge \Omega+\frac{1}{3} \omega \wedge \omega \wedge \omega\right)` | $\operatorname{Tr}(\Omega \wedge \Omega)=d \operatorname{Tr}\left(\omega \wedge \Omega+\frac{1}{3} \omega \wedge \omega \wedge \omega\right)$ | $\operatorname{Tr}(\Omega \wedge \Omega)=d \operatorname{Tr}\left(\omega \wedge \Omega+\frac{1}{3} \omega \wedge \omega \wedge \omega\right)$ |
| mielke-geometrodynamics_EQ0067 (2.8.10) | 48 | 1.000 | `\begin{aligned} & \operatorname{Tr}\left\{d\left(\omega \wedge d \omega-\frac{2}{3} \omega \wedge \omega \wedge \omega\right)\right\}=\operatorname{Tr}\{d \omega \wedge d \omega-\omega \wedge d d \omega \\ & \left.-\frac{2}{3} d \omega \wedge \omega \wedge \omega+\frac{2}{3} \omega \wedge d \omega \wedge \omega-\frac{2}{3} \omega \wedge \omega \wedge d \omega\right\} \\ & =\operatorname{Tr}\{d \omega \wedge d \omega-d \omega \wedge \omega \wedge \omega-\omega \wedge \omega \wedge d \omega\} \\ & =\operatorname{Tr}\{(d \omega-\omega \wedge \omega) \wedge(d \omega-\omega \wedge \omega)\}=\operatorname{Tr}(\Omega \wedge \Omega) \end{aligned}` | $\begin{aligned} & \operatorname{Tr}\left\{d\left(\omega \wedge d \omega-\frac{2}{3} \omega \wedge \omega \wedge \omega\right)\right\}=\operatorname{Tr}\{d \omega \wedge d \omega-\omega \wedge d d \omega \\ & \left.-\frac{2}{3} d \omega \wedge \omega \wedge \omega+\frac{2}{3} \omega \wedge d \omega \wedge \omega-\frac{2}{3} \omega \wedge \omega \wedge d \omega\right\} \\ & =\operatorname{Tr}\{d \omega \wedge d \omega-d \omega \wedge \omega \wedge \omega-\omega \wedge \omega \wedge d \omega\} \\ & =\operatorname{Tr}\{(d \omega-\omega \wedge \omega) \wedge(d \omega-\omega \wedge \omega)\}=\operatorname{Tr}(\Omega \wedge \Omega) \end{aligned}$ | $\begin{aligned} & \operatorname{Tr}\left\{d\left(\omega \wedge d \omega-\frac{2}{3} \omega \wedge \omega \wedge \omega\right)\right\}=\operatorname{Tr}\{d \omega \wedge d \omega-\omega \wedge d d \omega \\ & \left.-\frac{2}{3} d \omega \wedge \omega \wedge \omega+\frac{2}{3} \omega \wedge d \omega \wedge \omega-\frac{2}{3} \omega \wedge \omega \wedge d \omega\right\} \\ & =\operatorname{Tr}\{d \omega \wedge d \omega-d \omega \wedge \omega \wedge \omega-\omega \wedge \omega \wedge d \omega\} \\ & =\operatorname{Tr}\{(d \omega-\omega \wedge \omega) \wedge(d \omega-\omega \wedge \omega)\}=\operatorname{Tr}(\Omega \wedge \Omega). \end{aligned}$ |
| mielke-geometrodynamics_EQ0068 (2.8.11) | 48 | 1.000 | `\operatorname{Tr}\{\omega \wedge(\omega \wedge \omega \wedge \omega)\}=-\operatorname{Tr}\{(\omega \wedge \omega \wedge \omega) \wedge \omega\}=0 .` | $\operatorname{Tr}\{\omega \wedge(\omega \wedge \omega \wedge \omega)\}=-\operatorname{Tr}\{(\omega \wedge \omega \wedge \omega) \wedge \omega\}=0 .$ | $\operatorname{Tr}\{\omega \wedge(\omega \wedge \omega \wedge \omega)\}=-\operatorname{Tr}\{(\omega \wedge \omega \wedge \omega) \wedge \omega\}=0 .$ |
| mielke-geometrodynamics_EQ0070 (2.8.13) | 48 | 1.000 | `S_{\mathrm{YM}}=\int_{M} L_{\mathrm{YM}}` | $S_{\mathrm{YM}}=\int_{M} L_{\mathrm{YM}}$ | $S_{\mathrm{YM}}=\int_{M} L_{\mathrm{YM}}$ |
| mielke-geometrodynamics_EQ0072 (2.8.15) | 48 | 1.000 | `\omega \sim \stackrel{\infty}{\omega}` | $\omega \sim \stackrel{\infty}{\omega}$ | $\omega \sim \stackrel{\infty}{\omega}$ |
| mielke-geometrodynamics_EQ0074 (2.8.17) | 49 | 1.000 | `\Omega(\stackrel{\infty}{\omega})=0 .` | $\Omega(\stackrel{\infty}{\omega})=0 .$ | $\Omega(\stackrel{\infty}{\omega})=0 .$ |
| mielke-geometrodynamics_EQ0075 (2.8.18) | 49 | 1.000 | `c_{2}(M)=\frac{1}{24 \pi^{2}} \int_{\partial M} \operatorname{Tr}(\stackrel{\infty}{\omega} \wedge \stackrel{\infty}{\omega} \wedge \stackrel{\infty}{\omega}),` | $c_{2}(M)=\frac{1}{24 \pi^{2}} \int_{\partial M} \operatorname{Tr}(\stackrel{\infty}{\omega} \wedge \stackrel{\infty}{\omega} \wedge \stackrel{\infty}{\omega}),$ | $c_{2}(M)=\frac{1}{24 \pi^{2}} \int_{\partial M} \operatorname{Tr}(\stackrel{\infty}{\omega} \wedge \stackrel{\infty}{\omega} \wedge \stackrel{\infty}{\omega}),$ |
| mielke-geometrodynamics_EQ0076 (3.1.1) | 52 | 1.000 | `L=L(\varphi, d \varphi) \eta` | $L=L(\varphi, d \varphi) \eta$ | $L=L(\varphi, d \varphi) \eta$ |
| mielke-geometrodynamics_EQ0077 (3.1.2) | 52 | 1.000 | `\delta \int_{M} L=0` | $\delta \int_{M} L=0$ | $\delta \int_{M} L=0$ |
| mielke-geometrodynamics_EQ0078 (3.1.3) | 52 | 1.000 | `\delta \varphi=0 \quad \text { at the boundary } \partial \mathrm{M} \text { of } \mathrm{M}` | $\delta \varphi=0 \quad \text { at the boundary } \partial \mathrm{M} \text { of } \mathrm{M}$ | $\delta \varphi=0 \quad \text { at the boundary } \partial \mathrm{M} \text { of } \mathrm{M}$ |
| mielke-geometrodynamics_EQ0079 (3.1.4) | 52 | 1.000 | `\delta(d \varphi):=d(\varphi+\delta \varphi)-d \varphi=d \delta \varphi` | $\delta(d \varphi):=d(\varphi+\delta \varphi)-d \varphi=d \delta \varphi$ | $\delta(d \varphi):=d(\varphi+\delta \varphi)-d \varphi=d \delta \varphi$ |
| mielke-geometrodynamics_EQ0080 (3.1.5) | 52 | 1.000 | `\pi:=\frac{\partial L}{\partial\left(\partial_{\alpha} \varphi\right)} \vartheta^{\alpha}` | $\pi:=\frac{\partial L}{\partial\left(\partial_{\alpha} \varphi\right)} \vartheta^{\alpha}$ | $\pi:=\frac{\partial L}{\partial\left(\partial_{\alpha} \varphi\right)} \vartheta^{\alpha}$ |

| Identifier | Page | Conf. | LaTeX source | Rendered | Image |
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| mielke-geometrodynamics_EQ0082 (3.1.7) | 53 | 1.000 | `\int_{M} d(\delta \varphi \wedge \pi)=\int_{\partial M} \delta \varphi \wedge \pi` | $\int_M d(\delta\varphi \wedge \pi) = \int_{\partial M} \delta\varphi \wedge \pi$ | $\int\limits_M d(\delta\varphi \wedge \pi) = \int\limits_{\partial M} \delta\varphi \wedge \pi.$ |
| mielke-geometrodynamics_EQ0083 (3.1.9) | 53 | 1.000 | `\lambda^{\varphi}:=(-1)^{s} L_{\varphi}+{ }^{*} d \pi=0,` | $\lambda^{\varphi} := (-1)^s L_\varphi + {}^*d\pi = 0,$ | $\lambda^{\varphi} := (-1)^s L_\varphi + {}^*d\pi = 0,$ |
| mielke-geometrodynamics_EQ0084 (3.1.10) | 53 | 1.000 | `\frac{\partial L}{\partial \varphi}-\partial_{\alpha} \frac{\partial L}{\partial\left(\partial_{\alpha} \varphi \right)}=0 .` | $\frac{\partial L}{\partial \varphi} - \partial_\alpha \frac{\partial L}{\partial\left(\partial_\alpha \varphi\right)} = 0 .$ | $\frac{\partial L}{\partial \varphi} - \partial_\alpha \frac{\partial L}{\partial\left(\partial_\alpha \varphi\right)} = 0.$ |
| mielke-geometrodynamics_EQ0085 (3.1.11) | 53 | 1.000 | `{ }^{*} H:=L-d \varphi \wedge \pi` | ${}^*H := L - d\varphi \wedge \pi$ | ${}^*H := L - d\varphi \wedge \pi$ |
| mielke-geometrodynamics_EQ0086 (3.1.12) | 53 | 1.000 | `d^{*} H=d L+d \varphi \wedge^{*} L_{\varphi}+d \varphi \wedge d \pi-d d \varphi \wedge \pi` | $d^*H = dL + d\varphi \wedge^* L_\varphi + d\varphi \wedge d\pi - dd\varphi \wedge \pi$ | $d^*H = dL + d\varphi \wedge {}^*L_\varphi + d\varphi \wedge d\pi - d\,d\varphi \wedge \pi$ |
| mielke-geometrodynamics_EQ0087 (3.1.13) | 53 | 1.000 | `d^{*} H \simeq 0` | $d^*H \simeq 0$ | $d\,{}^*H \simeq 0$ |
| mielke-geometrodynamics_EQ0088 (3.1.14) | 54 | 1.000 | `\beta \wedge^{*} D \psi=m \psi \eta .` | $\beta \wedge^* D\psi = m\psi\eta.$ | $\beta \wedge^* D\psi = m\psi\eta.$ |
| mielke-geometrodynamics_EQ0089 (3.1.15) | 54 | 1.000 | `\square \varphi+m^{2} \varphi=0` | $\Box\varphi + m^2\varphi = 0$ | $\Box\varphi + m^2\varphi = 0$ |
| mielke-geometrodynamics_EQ0090 (3.1.16) | 54 | 1.000 | `\overline{\bar{L}}_{\mathrm{mat}}=\overline{\bar{L}}_{ \mathrm{mat}}(\bar{\psi} \psi, \bar{\psi} \beta \cdot d \psi) \eta=\bar{\psi} \beta \wedge^{*} d \psi-m \bar{ \psi} \psi \eta .` | $\overline{\overline{L}}_{\mathrm{mat}} = \overline{\overline{L}}_{\mathrm{mat}}(\bar{\psi}\psi, \bar{\psi}\beta \cdot d\psi)\eta = \bar{\psi}\beta \wedge^* d\psi - m\bar{\psi}\psi\eta.$ | $\overline{\overline{L}}_{\mathrm{mat}} = \overline{\overline{L}}_{\mathrm{mat}}(\overline{\psi}\psi, \overline{\psi}\beta \cdot d\psi)\eta = \overline{\psi}\beta \wedge {}^*d\psi - m\overline{\psi}\psi\eta.$ |
| mielke-geometrodynamics_EQ0092 (3.2.2) | 55 | 1.000 | `L_{\mathrm{mat}}=L\left(\bar{\varphi} \varphi, \bar{ \varphi} \beta \cdot\left(d+\omega^{\prime}\right) \varphi\right) \eta=L\left(\bar{\varphi} \varphi, \bar{ \varphi} \beta \cdot D^{\prime} \varphi\right) \eta` | $L_{\mathrm{mat}} = L\left(\bar{\varphi}\varphi, \bar{\varphi}\beta \cdot (d + \omega')\,\varphi\right)\eta = L\left(\bar{\varphi}\varphi, \bar{\varphi}\beta \cdot D'\varphi\right)\eta$ | $L_{\mathrm{mat}} = L(\overline{\varphi}\varphi, \overline{\varphi}\beta \cdot (d + \omega')\varphi)\eta = L(\overline{\varphi}\varphi, \overline{\varphi}\beta \cdot D'\varphi)\eta$ |
| mielke-geometrodynamics_EQ0094 (3.2.4) | 55 | 1.000 | `D\left({ }^{G} b\right)={ }^{G} \omega \otimes{ }^{G} b .` | $D\left({}^G b\right) = {}^G\omega \otimes {}^G b.$ | $D({}^G b) = {}^G\omega \otimes {}^G b.$ |
| mielke-geometrodynamics_EQ0095 (3.2.5) | 55 | 1.000 | `\begin{aligned} D\left({ }^{G} b\right) & =d G \otimes b+G \omega \otimes b \\ & =\left\{d G G^{-1}+G \omega G^{-1}\right\} \otimes^{G} b . \end{aligned}` | $\begin{aligned} D\left({}^G b\right) &= dG \otimes b + G\omega \otimes b \\ &= \left\{dGG^{-1} + G\omega G^{-1}\right\} \otimes^G b. \end{aligned}$ | $\begin{aligned} D({}^G b) &= dG \otimes b + G\omega \otimes b \\ &= \left\{dGG^{-1} + G\omega G^{-1}\right\} \otimes {}^G b. \end{aligned}$ |
| mielke-geometrodynamics_EQ0096 (3.2.6) | 55 | 1.000 | `\omega \rightarrow{ }^{G} \omega=G \omega G^{-1}+d G G^{-1} .` | $\omega \rightarrow {}^G\omega = G\omega G^{-1} + dGG^{-1}.$ | $\omega \rightarrow {}^G\omega = G\omega G^{-1} + dG\,G^{-1}.$ |
| mielke-geometrodynamics_EQ0102 (3.3.3) | 57 | 1.000 | `\theta=-\frac{e}{\hbar} \int \mathbf{A} \cdot d \mathbf{l}` | $\theta = -\frac{e}{\hbar} \int \mathbf{A} \cdot d\mathbf{l}$ | $\theta = -\frac{e}{\hbar} \int \mathbf{A} \cdot d\mathbf{l}.$ |
| mielke-geometrodynamics_EQ0103 (3.3.4) | 57 | 1.000 | `L=L(A, d A)+L_{\mathrm{mat}}(A, d A, \Psi, d \Psi) .` | $L = L(A, dA) + L_{\mathrm{mat}}(A, dA, \Psi, d\Psi).$ | $L = L(A, dA) + L_{\mathrm{mat}}(A, dA, \Psi, d\Psi).$ |
| mielke-geometrodynamics_EQ0104 (3.3.5) | 57 | 1.000 | `\frac{\delta L}{\delta A}:=\frac{\partial L}{\partial A}+d \frac{\partial L}{\partial d A}=0,` | $\frac{\delta L}{\delta A} := \frac{\partial L}{\partial A} + d\frac{\partial L}{\partial dA} = 0,$ | $\frac{\delta L}{\delta A} := \frac{\partial L}{\partial A} + d\frac{\partial L}{\partial dA} = 0\,,$ |
| mielke-geometrodynamics_EQ0106 (3.3.7) | 58 | 1.000 | `d F \equiv 0, \quad d H=j` | $dF \equiv 0, \quad dH = j$ | $dF \equiv 0, \qquad dH = j\,.$ |
| mielke-geometrodynamics_EQ0107 (3.3.8) | 58 | 1.000 | `d j \simeq 0 .` | $dj \simeq 0.$ | $dj \simeq 0\,.$ |
| mielke-geometrodynamics_EQ0111 (3.3.12) | 58 | 1.000 | `H:=-\mathfrak{H} \wedge d t+\mathfrak{D}=\frac{1}{2} H_{i j} d x^{i} \wedge d x^{j}` | $H := -\mathfrak{H} \wedge dt + \mathfrak{D} = \frac{1}{2} H_{ij} dx^i \wedge dx^j$ | $H := -\mathfrak{H} \wedge dt + \mathfrak{D} = \frac{1}{2} H_{ij} dx^i \wedge dx^j\,,$ |
| mielke-geometrodynamics_EQ0114 (3.3.15) | 59 | 1.000 | `H_{m n}=\frac{\sqrt{\|g\|}}{2} \varepsilon_{m n k l} g^{k i} g^{l j} F_{i j} .` | $H_{mn} = \frac{\sqrt{\|g\|}}{2} \varepsilon_{mnkl} g^{ki} g^{lj} F_{ij}.$ | $H_{mn} = \frac{\sqrt{\|g\|}}{2} \varepsilon_{mnkl}\, g^{ki} g^{lj} F_{ij}\,.$ |

| Identifier | Page | Conf. | LaTeX source | Rendered | Image |
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| mielke-geometrodynamics_EQ0121 (3.3.22) | 60 | 1.000 | `L_{\mathrm{BF}}=-B \wedge F=-B \wedge d A .` | $L_{\mathrm{BF}}=-B \wedge F=-B \wedge d A .$ | $L_{\mathrm{BF}}=-B \wedge F=-B \wedge d A .$ |
| mielke-geometrodynamics_EQ0122 (3.3.23) | 60 | 1.000 | `\begin{aligned} \tilde{L}_{\mathrm{BF}} & :=-B \wedge d A+\frac{1}{2} B \wedge B \\ & \cong-B \wedge d A+d C \end{aligned}` | $\begin{aligned} \tilde{L}_{\mathrm{BF}} & :=-B \wedge d A+\frac{1}{2} B \wedge B \\ & \cong-B \wedge d A+d C \end{aligned}$ | $\begin{aligned} \tilde{L}_{\mathrm{BF}} & :=-B \wedge d A+\frac{1}{2} B \wedge B \\ & \cong-B \wedge d A+d C . \end{aligned}$ |
| mielke-geometrodynamics_EQ0123 (3.3.24) | 60 | 1.000 | `B \cong d A, \quad d B \cong d F \equiv 0` | $B \cong d A, \quad d B \cong d F \equiv 0$ | $B \cong d A, \quad d B \cong d F \equiv 0,$ |
| mielke-geometrodynamics_EQ0124 (3.3.25) | 60 | 1.000 | `C=\frac{1}{2} A \wedge F, \quad d C=\frac{1}{2} F \wedge F,` | $C=\frac{1}{2} A \wedge F, \quad d C=\frac{1}{2} F \wedge F,$ | $C=\frac{1}{2} A \wedge F, \quad d C=\frac{1}{2} F \wedge F,$ |
| mielke-geometrodynamics_EQ0125 (3.3.26) | 61 | 1.000 | `A \rightarrow A^{\prime}=A+d \theta(x) .` | $A \rightarrow A^{\prime}=A+d \theta(x) .$ | $A \rightarrow A^{\prime}=A+d \theta(x) .$ |
| mielke-geometrodynamics_EQ0126 (3.3.27) | 61 | 1.000 | `A \rightarrow \widetilde{A}=A+\psi, \quad B \rightarrow \widetilde{B}=B+d \psi,` | $A \rightarrow \widetilde{A}=A+\psi, \quad B \rightarrow \widetilde{B}=B+d \psi,$ | $A \rightarrow \widetilde{A}=A+\psi, \quad B \rightarrow \widetilde{B}=B+d \psi,$ |
| mielke-geometrodynamics_EQ0127 (3.3.28) | 61 | 1.000 | `L_{\mathrm{Max}}=-B \wedge d A+\frac{1}{2} B \wedge{ }^{*} B+L_{\mathrm{matter}},` | $L_{\mathrm{Max}}=-B \wedge d A+\frac{1}{2} B \wedge{ }^{*} B+L_{\mathrm{matter}},$ | $L_{\mathrm{Max}}=-B \wedge d A+\frac{1}{2} B \wedge{ }^{*} B+L_{\mathrm{matter}},$ |
| mielke-geometrodynamics_EQ0128 (3.3.29) | 61 | 1.000 | `-d B=d^{*} F \cong j,` | $-d B=d^{*} F \cong j,$ | $-d B=d^{*} F \cong j,$ |
| mielke-geometrodynamics_EQ0132 (3.4.3) | 63 | 1.000 | `\alpha_{g}:=g^{2} / \hbar c` | $\alpha_{g}:=g^{2} / \hbar c$ | $\alpha_{g}:=g^{2} / \hbar c$ |
| mielke-geometrodynamics_EQ0134 (3.4.5) | 63 | 1.000 | `\delta L_{\omega}=: \delta \Omega \wedge \Pi^{\Omega} .` | $\delta L_{\omega}=: \delta \Omega \wedge \Pi^{\Omega} .$ | $\delta L_{\omega}=: \delta \Omega \wedge \Pi^{\Omega} .$ |
| mielke-geometrodynamics_EQ0138 (3.4.9) | 63 | 1.000 | `L=L_{\mathrm{mat}}+L_{\omega},` | $L=L_{\mathrm{mat}}+L_{\omega},$ | $L=L_{\mathrm{mat}}+L_{\omega},$ |
| mielke-geometrodynamics_EQ0139 (3.4.10) | 63 | 1.000 | `\delta L_{\mathrm{mat}}=: \delta \omega \wedge \tau .` | $\delta L_{\mathrm{mat}}=: \delta \omega \wedge \tau .$ | $\delta L_{\mathrm{mat}}=: \delta \omega \wedge \tau .$ |
| mielke-geometrodynamics_EQ0140 (3.4.11) | 64 | 1.000 | `D \Pi^{\Omega}=\tau` | $D \Pi^{\Omega}=\tau$ | $D \Pi^{\Omega}=\tau$ |
| mielke-geometrodynamics_EQ0141 (3.4.12) | 64 | 1.000 | `D \Omega \equiv 0 .` | $D \Omega \equiv 0 .$ | $D \Omega \equiv 0 .$ |
| mielke-geometrodynamics_EQ0145 (3.4.16) | 64 | 1.000 | `d \Pi^{\Omega}+\left[\omega, \Pi^{\Omega}\right]=\tau .` | $d \Pi^{\Omega}+\left[\omega, \Pi^{\Omega}\right]=\tau .$ | $d \Pi^{\Omega}+\left[\omega, \Pi^{\Omega}\right]=\tau .$ |
| mielke-geometrodynamics_EQ0147 (3.4.18) | 65 | 1.000 | `Q_{e}=\frac{1}{2} Y+I_{3} .` | $Q_{e}=\frac{1}{2} Y+I_{3} .$ | $Q_{e}=\frac{1}{2} Y+I_{3} .$ |
| mielke-geometrodynamics_EQ0148 (3.4.19) | 65 | 1.000 | `L_{\mathrm{YM}}=-\frac{1}{\alpha_{g}} \operatorname{Tr} \left(\Omega \wedge^{*} \Omega\right) .` | $L_{\mathrm{YM}}=-\frac{1}{\alpha_{g}} \operatorname{Tr}\left(\Omega \wedge^{*} \Omega\right) .$ | $L_{\mathrm{YM}}=-\frac{1}{\alpha_{g}} \operatorname{Tr}\left(\Omega \wedge^{*} \Omega\right) .$ |
| mielke-geometrodynamics_EQ0150 (3.4.21) | 65 | 1.000 | `\Pi^{\Omega}=-\frac{2}{\alpha_{g}}{ }^{*} \Omega` | $\Pi^{\Omega}=-\frac{2}{\alpha_{g}}{ }^{*} \Omega$ | $\Pi^{\Omega}=-\frac{2}{\alpha_{g}}{ }^{*} \Omega$ |
| mielke-geometrodynamics_EQ0153 (3.5.1) | 66 | 1.000 | `\Pi^{\Omega}=\zeta \Omega .` | $\Pi^{\Omega}=\zeta \Omega .$ | $\Pi^{\Omega}=\zeta \Omega .$ |
| mielke-geometrodynamics_EQ0156 (3.5.4) | 67 | 1.000 | `{ }^{*} \sigma^{\mu \nu}=\sigma^{\mu \nu}, \quad{ }^{*} \bar{\sigma}^{\mu \nu}=-\bar{\sigma}^{\mu \nu},` | ${ }^{*} \sigma^{\mu \nu}=\sigma^{\mu \nu}, \quad{ }^{*} \bar{\sigma}^{\mu \nu}=-\bar{\sigma}^{\mu \nu},$ | ${ }^{*} \sigma^{\mu \nu}=\sigma^{\mu \nu}, \quad{ }^{*} \bar{\sigma}^{\mu \nu}=-\bar{\sigma}^{\mu \nu},$ |
| mielke-geometrodynamics_EQ0158 (3.5.6) | 67 | 1.000 | `A_{\mu}=i \sigma_{\mu i} \partial^{i} \ln h .` | $A_{\mu}=i \sigma_{\mu i} \partial^{i} \ln h .$ | $A_{\mu}=i \sigma_{\mu i} \partial^{i} \ln h .$ |
| mielke-geometrodynamics_EQ0159 (3.5.7) | 67 | 1.000 | `\square h-h^{-1} \partial_{i} h \partial^{i} h=h^{3}` | $\square h-h^{-1} \partial_{i} h \partial^{i} h=h^{3}$ | $\square h-h^{-1} \partial_{i} h \partial^{i} h=h^{3}$ |

| Identifier | Page | Conf. | LaTeX source | Rendered | Image |
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| mielke-geometrodynamics_EQ0160 (3.5.8) | 67 | 1.000 | `h=\sum_{i=1}^{k+1} \frac{l_{(i)}^{2}}{\left(x-x_{(i)} \right)^{2}},` | $h=\sum_{i=1}^{k+1} \frac{l_{(i)}^{2}}{\left(x-x_{(i)} \right)^{2}},$ | $h=\sum_{i=1}^{k+1} \frac{l_{(i)}^{2}}{\left(x-x_{(i)} \right)^{2}},$ |
| mielke-geometrodynamics_EQ0161 (3.5.9) | 67 | 1.000 | `p_{1}(M)=k .` | $p_{1}(M)=k .$ | $p_{1}(M)=k .$ |
| mielke-geometrodynamics_EQ0162 (3.5.10) | 68 | 1.000 | `\langle\infty \mid-\infty\rangle=Z \int_{\mathscr{M}_{ \omega}} d \omega \mu[\omega] \exp i \int_{M}\left(L_{ \omega}+L_{\infty}\right)` | $\langle\infty \mid-\infty\rangle=Z \int_{\mathscr{M}_{ \omega}} d \omega \mu[\omega] \exp i \int_{M}\left(L_{ \omega}+L_{\infty}\right)$ | $\langle\infty \mid-\infty\rangle=Z \int_{\mathscr{M}_{ \omega}} d \omega \mu[\omega] \exp i \int_{M}\left(L_{ \omega}+L_{\infty}\right)$ |
| mielke-geometrodynamics_EQ0163 (3.5.11) | 68 | 1.000 | `L_{\infty}=(\stackrel{+}{-}) \frac{1}{\alpha_{g}} \operatorname{Tr}(\Omega \wedge \Omega)` | $L_{\infty}=(\stackrel{+}{-}) \frac{1}{\alpha_{g}} \operatorname{Tr}(\Omega \wedge \Omega)$ | $L_{\infty}=(\stackrel{+}{-}) \frac{1}{\alpha_{g}} \operatorname{Tr}(\Omega \wedge \Omega)$ |
| mielke-geometrodynamics_EQ0167 (3.6.2) | 70 | 1.000 | `\mathscr{P}_{ \pm}:=\bar{\psi} \sigma_{ \pm} \psi / 2 m,` | $\mathscr{P}_{ \pm}:=\bar{\psi} \sigma_{ \pm} \psi / 2 m,$ | $\mathscr{P}_{ \pm}:=\bar{\psi} \sigma_{ \pm} \psi / 2 m,$ |
| mielke-geometrodynamics_EQ0168 (3.6.3) | 70 | 1.000 | `D_{ \pm}{ }^{*} D_{ \pm} \psi \mp i\left(F^{ \pm}-\frac{1}{2} \bar{\psi} \sigma_{ \pm} \psi\right) \wedge \sigma_{ \pm} \psi=0` | $D_{ \pm}{ }^{*} D_{ \pm} \psi \mp i\left(F^{ \pm}-\frac{1}{2} \bar{\psi} \sigma_{ \pm} \psi\right) \wedge \sigma_{ \pm} \psi=0$ | $D_{ \pm}{ }^{*} D_{ \pm} \psi \mp i\left(F^{ \pm}-\frac{1}{2} \bar{\psi} \sigma_{ \pm} \psi\right) \wedge \sigma_{ \pm} \psi=0$ |
| mielke-geometrodynamics_EQ0170 (3.6.5) | 70 | 1.000 | `D^{*} D \psi=\left(\nabla^{*} \nabla+\frac{1}{4} R+ \frac{1}{2} F^{+}\right) \psi .` | $D^{*} D \psi=\left(\nabla^{*} \nabla+\frac{1}{4} R+\frac{1}{2} F^{+}\right) \psi .$ | $D^{*} D \psi=\left(\nabla^{*} \nabla+\frac{1}{4} R+\frac{1}{2} F^{+}\right) \psi .$ |
| mielke-geometrodynamics_EQ0172 (3.6.7) | 70 | 1.000 | `\Omega_{ \pm}^{g}=\frac{1}{2 \ell^{2}} \sigma_{ \pm},` | $\Omega_{ \pm}^{g}=\frac{1}{2 \ell^{2}} \sigma_{ \pm},$ | $\Omega_{ \pm}^{g}=\frac{1}{2 \ell^{2}} \sigma_{ \pm},$ |
| mielke-geometrodynamics_EQ0176 (3.7.5) | 72 | 1.000 | `\begin{aligned} & D^{*} \Theta^{(1)}-\frac{\lambda}{2} \left(\frac{\mu^{2}}{\lambda}-\bar{\varphi} \cdot \varphi\right) \varphi \eta=0, \\ & D \Pi^{\Omega}+\left[ \phi^{(0)},{ }^{*} \Theta^{(1)}\right]=0 . \end{aligned}` | $\begin{aligned} & D^{*} \Theta^{(1)}-\frac{\lambda}{2} \left(\frac{\mu^{2}}{\lambda}-\bar{\varphi} \cdot \varphi\right) \varphi \eta=0, \\ & D \Pi^{\Omega}+\left[ \phi^{(0)},{ }^{*} \Theta^{(1)}\right]=0 . \end{aligned}$ | $\begin{aligned} & D^{*} \Theta^{(1)}-\frac{\lambda}{2} \left(\frac{\mu^{2}}{\lambda}-\bar{\varphi} \cdot \varphi\right) \varphi \eta=0, \\ & D \Pi^{\Omega}+\left[ \phi^{(0)},{ }^{*} \Theta^{(1)}\right]=0 . \end{aligned}$ |
| mielke-geometrodynamics_EQ0177 (3.7.7) | 72 | 1.000 | `\bar{\varphi} \cdot \varphi:=\varphi^{* j} \varphi_{j}= \frac{\mu^{2}}{\lambda} .` | $\bar{\varphi} \cdot \varphi:=\varphi^{* j} \varphi_{j}= \frac{\mu^{2}}{\lambda} .$ | $\bar{\varphi} \cdot \varphi:=\varphi^{* j} \varphi_{j}= \frac{\mu^{2}}{\lambda} .$ |
| mielke-geometrodynamics_EQ0179 (3.7.9) | 72 | 1.000 | `\varphi_{\min }: P \rightarrow C^{\infty}\left(\stackrel{ \circ}{V}(M, \rho(G / H), \rho(G), P) \subset V^{\rho} \right) .` | $\varphi_{\min }: P \rightarrow C^{\infty}\left(\stackrel{ \circ}{V}(M, \rho(G / H), \rho(G), P) \subset V^{\rho} \right) .$ | $\varphi_{\min }: P \rightarrow C^{\infty}\left(\stackrel{ \circ}{V}(M, \rho(G / H), \rho(G), P) \subset V^{\rho} \right) .$ |
| mielke-geometrodynamics_EQ0180 (3.7.10) | 73 | 1.000 | `H:=\left\{h \in G \mid \rho(h) \mathrm{v}_{0}= \mathrm{v}_{0}\right\},` | $H:=\left\{h \in G \mid \rho(h) \mathrm{v}_{0}= \mathrm{v}_{0}\right\},$ | $H:=\left\{h \in G \mid \rho(h) \mathrm{v}_{0}= \mathrm{v}_{0}\right\},$ |
| mielke-geometrodynamics_EQ0181 (3.7.11) | 73 | 1.000 | `Q=\left\{p \in P \mid \varphi(p)=\sigma\left( \mathrm{v}_{0}\right)\right\}` | $Q=\left\{p \in P \mid \varphi(p)=\sigma\left( \mathrm{v}_{0}\right)\right\}$ | $Q=\left\{p \in P \mid \varphi(p)=\sigma\left( \mathrm{v}_{0}\right)\right\}$ |
| mielke-geometrodynamics_EQ0182 (3.7.12) | 73 | 1.000 | `D \phi^{(0)}=0 .` | $D \phi^{(0)}=0 .$ | $D \phi^{(0)}=0 .$ |
| mielke-geometrodynamics_EQ0183 (3.7.13) | 73 | 1.000 | `\begin{aligned} \Theta^{\perp}:=\Omega_{0} & =d \omega_{0}-(\omega \wedge \omega)_{0}=d \omega_{0}- \omega_{0} \wedge \omega-\omega \wedge \omega_{0} \\ & =d \omega_{0}-\left[\omega_{0}, \omega\right]=D \omega_{0} \end{aligned}` | $\begin{aligned} \Theta^{\perp}:=\Omega_{0} & =d \omega_{0}-(\omega \wedge \omega)_{0}=d \omega_{0}- \omega_{0} \wedge \omega-\omega \wedge \omega_{0} \\ & =d \omega_{0}-\left[\omega_{0}, \omega\right]=D \omega_{0} \end{aligned}$ | $\begin{aligned} \Theta^{\perp}:=\Omega_{0} & =d \omega_{0}-(\omega \wedge \omega)_{0}=d \omega_{0}- \omega_{0} \wedge \omega-\omega \wedge \omega_{0} \\ & =d \omega_{0}-\left[\omega_{0}, \omega\right]=D \omega_{0} \end{aligned}$ |
| mielke-geometrodynamics_EQ0185 (3.7.15) | 74 | 1.000 | `d_{0}{ }^{*} \Omega_{0}=0 .` | $d_{0}{ }^{*} \Omega_{0}=0 .$ | $d_{0}{ }^{*} \Omega_{0}=0 .$ |
| mielke-geometrodynamics_EQ0186 (3.7.16) | 74 | 1.000 | `\left(D^{*} \Omega\right)_{0}=\vec{D}^{*} \Omega_{0}= \vec{D}^{*} \Theta^{\perp}=0` | $\left(D^{*} \Omega\right)_{0}=\vec{D}^{*} \Omega_{0}= \vec{D}^{*} \Theta^{\perp}=0$ | $\left(D^{*} \Omega\right)_{0}=\vec{D}^{*} \Omega_{0}= \vec{D}^{*} \Theta^{\perp}=0$ |

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| mielke-geometrodynamics_EQ0188 (3.7.18) | 74 | 1.000 | `\omega_{0}=\varphi^{j} L_{j} \otimes \vartheta_{0} .` | $\omega_0 = \varphi^j L_j \otimes \vartheta_0.$ | $\omega_0 = \varphi^j L_j \otimes \vartheta_0.$ |
| mielke-geometrodynamics_EQ0190 | 80 | 1.000 | `\[ T_{G}: \quad T_{g} \psi(m)=D\left(g_{m}^{-1} g g_{g^{-1} m}, m_{0}\right) \psi\left(g^{-1} m\right) . \] }` | $T_G: \quad T_g\psi(m) = D\left(g_m^{-1} g g_{g^{-1}m}, m_0\right)\psi\left(g^{-1}m\right).$ | $T_G: \quad T_g\psi(m) = D\left(g_m^{-1} g g_{g^{-1}m}, m_0\right)\psi(g^{-1}m).$ |
| mielke-geometrodynamics_EQ0193 (4.1.3) | 81 | 1.000 | `A(n, \mathbb{R})=\mathbb{R}^{n} \otimes G L(n, \mathbb{R})` | $A(n,\mathbb{R}) = \mathbb{R}^n \otimes GL(n,\mathbb{R})$ | $A(n,\mathbb{R}) = \mathbb{R}^n \otimes GL(n,\mathbb{R})$ |
| mielke-geometrodynamics_EQ0194 (4.1.4) | 81 | 1.000 | `P:=\mathbb{R}^{n} \otimes 0(1, n-1) \subset A(n, \mathbb{R}),` | $P := \mathbb{R}^n \otimes 0(1, n-1) \subset A(n,\mathbb{R}),$ | $P := \mathbb{R}^n \otimes 0(1, n-1) \subset A(n,\mathbb{R}),$ |
| mielke-geometrodynamics_EQ0197 (4.1.10) | 82 | 1.000 | `e_{\alpha}(m)=e_{\alpha}^{i} \partial_{i}` | $e_\alpha(m) = e_\alpha^i \partial_i$ | $e_\alpha(m) = e_\alpha^i \partial_i$ |
| mielke-geometrodynamics_EQ0199 (4.1.13) | 82 | 1.000 | `L(M)=\bigcup_{m \in M} L_{m}(M)` | $L(M) = \bigcup_{m\in M} L_m(M)$ | $L(M) = \bigcup_{m\in M} L_m(M)$ |
| mielke-geometrodynamics_EQ0200 (4.1.14) | 83 | 1.000 | `L(M)=P(M, G L(n, \mathbb{R}), \pi, \delta)` | $L(M) = P(M, GL(n,\mathbb{R}), \pi, \delta)$ | $L(M) = P(M, GL(n,\mathbb{R}), \pi, \delta)$ |
| mielke-geometrodynamics_EQ0202 (4.1.16) | 83 | 1.000 | `\vartheta(e)=0 \Leftrightarrow \pi(e)=0, e \in T_{p}(P),` | $\vartheta(e) = 0 \Leftrightarrow \pi(e) = 0, e \in T_p(P),$ | $\vartheta(e) = 0 \Leftrightarrow \pi(e) = 0, e \in T_p(P),$ |
| mielke-geometrodynamics_EQ0204 (4.1.18) | 83 | 1.000 | `T(M)=V\left(M, \mathbb{R}^{n}, G L(n, \mathbb{R}), L(M) \right)` | $T(M) = V\left(M, \mathbb{R}^n, GL(n,\mathbb{R}), L(M)\right)$ | $T(M) = V\left(M, \mathbb{R}^n, GL(n,\mathbb{R}), L(M)\right)$ |
| mielke-geometrodynamics_EQ0205 (4.1.19) | 83 | 1.000 | `A(M):=P(M, A(n, \mathbb{R}), \pi, \delta)=L(M) \times \mathbb{R}^{n} .` | $A(M) := P(M, A(n,\mathbb{R}), \pi, \delta) = L(M) \times \mathbb{R}^n.$ | $A(M) := P(M, A(n,\mathbb{R}), \pi, \delta) = L(M) \times \mathbb{R}^n.$ |
| mielke-geometrodynamics_EQ0206 (4.1.20) | 83 | 1.000 | `\beta: A(n, \mathbb{R}) \rightarrow G L(n, \mathbb{R})=A(n, \mathbb{R}) / \mathbb{R}^{n} .` | $\beta : A(n,\mathbb{R}) \rightarrow GL(n,\mathbb{R}) = A(n,\mathbb{R})/\mathbb{R}^n.$ | $\beta : A(n,\mathbb{R}) \rightarrow GL(n,\mathbb{R}) = A(n,\mathbb{R})/\mathbb{R}^n.$ |
| mielke-geometrodynamics_EQ0213 (4.2.5) | 86 | 1.000 | `\mathscr{A}(n, \mathbb{R}):=C^{\infty}\left(A(M) \times_{ \mathrm{Ad}} A(n, \mathbb{R})\right) .` | $\mathscr{A}(n,\mathbb{R}) := C^\infty\left(A(M) \times_{\mathrm{Ad}} A(n,\mathbb{R})\right).$ | $\mathscr{A}(n,\mathbb{R}) := C^\infty\left(A(M) \times_{\mathrm{Ad}} A(n,\mathbb{R})\right).$ |
| mielke-geometrodynamics_EQ0223 (4.2.16) | 87 | 1.000 | `Q_{A}=\left\{p \in A(M) \mid \widetilde{\widetilde{ \varphi}}(p)=\sigma\left(0_{m}\right)\right\}=L(M)` | $Q_A = \left\{p \in A(M) \mid \widetilde{\widetilde{\varphi}}(p) = \sigma\left(0_m\right)\right\} = L(M)$ | $Q_A = \{p \in A(M) \mid \widetilde{\widetilde{\varphi}}(p) = \sigma(0_m)\} = L(M)$ |
| mielke-geometrodynamics_EQ0237 (4.3.2) | 90 | 1.000 | `\ell(\mathscr{C}):=\int_{t_{0}}^{t_{1}} d s(t)` | $\ell(\mathscr{C}) := \int_{t_0}^{t_1} ds(t)$ | $\ell(\mathscr{C}) := \int_{t_0}^{t_1} ds(t)$ |
| mielke-geometrodynamics_EQ0238 (4.3.3) | 90 | 1.000 | `\ell\left(\mathscr{C}_{1}+\mathscr{C}_{2}\right)=\ell \left(\mathscr{C}_{1}\right)+\ell\left(\mathscr{C}_{2} \right)` | $\ell\left(\mathscr{C}_1 + \mathscr{C}_2\right) = \ell\left(\mathscr{C}_1\right) + \ell\left(\mathscr{C}_2\right)$ | $\ell\left(\mathscr{C}_1 + \mathscr{C}_2\right) = \ell\left(\mathscr{C}_1\right) + \ell\left(\mathscr{C}_2\right)$ |
| mielke-geometrodynamics_EQ0239 (4.3.4) | 90 | 1.000 | `d s=F(m, \vartheta) d t,` | $ds = F(m,\vartheta)dt,$ | $ds = F(m,\vartheta)dt,$ |
| mielke-geometrodynamics_EQ0242 (4.3.7) | 91 | 1.000 | `d s^{2}=(F(m, \vartheta) d t)^{2}=g_{\alpha \beta} \vartheta^{\alpha} \otimes \vartheta^{\beta}=g_{i j}(m) d x^{i} \otimes_{s} d x^{j} ;` | $ds^2 = (F(m,\vartheta)dt)^2 = g_{\alpha\beta}\vartheta^\alpha \otimes \vartheta^\beta = g_{ij}(m)dx^i \otimes_s dx^j;$ | $ds^2 = (F(m,\vartheta)dt)^2 = g_{\alpha\beta}\vartheta^\alpha \otimes \vartheta^\beta = g_{ij}(m)dx^i \otimes_s dx^j;$ |
| mielke-geometrodynamics_EQ0246 (4.3.11) | 92 | 1.000 | `L^{g}(M):=P(M, O(s, n-s), \pi, \delta) .` | $L^g(M) := P(M, O(s, n-s), \pi, \delta).$ | $L^g(M) := P(M, O(s, n-s), \pi, \delta).$ |
| mielke-geometrodynamics_EQ0247 (4.3.12) | 92 | 1.000 | `D e_{\alpha}^{\cdot i}=0` | $De_\alpha^{\cdot i} = 0$ | $D\, e_\alpha^{\cdot i} = 0$ |
| mielke-geometrodynamics_EQ0251 (4.3.16) | 92 | 1.000 | `\Gamma_{i}^{\cdot \alpha \beta}=-\Gamma_{i}^{\cdot \beta \alpha}` | $\Gamma_i^{\cdot\alpha\beta} = -\Gamma_i^{\cdot\beta\alpha}$ | $\Gamma_i^{\cdot\alpha\beta} = -\Gamma_i^{\cdot\beta\alpha}$ |
| mielke-geometrodynamics_EQ0252 (4.3.17) | 93 | 1.000 | `g_{i j} \stackrel{(*)}{=} o_{i j}` | $g_{ij} \overset{(*)}{=} o_{ij}$ | $g_{ij} \overset{(*)}{=} o_{ij}$ |
| mielke-geometrodynamics_EQ0253 (4.3.18) | 93 | 1.000 | `\partial_{k} g_{i j} \stackrel{(*)}{=} 0 .` | $\partial_k g_{ij} \overset{(*)}{=} 0.$ | $\partial_k g_{ij} \overset{(*)}{=} 0.$ |
| mielke-geometrodynamics_EQ0254 (4.3.19) | 93 | 1.000 | `\Omega^{g}=d \omega^{g}-\omega^{g} \wedge \omega^{g}` | $\Omega^g = d\omega^g - \omega^g \wedge \omega^g$ | $\Omega^g = d\omega^g - \omega^g \wedge \omega^g$ |

| Identifier | Page | Conf. | LaTeX source | Rendered | Image |
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| mielke-geometrodynamics_EQ0257 (4.3.22) | 94 | 1.000 | `\omega^{g}=\omega^{\{ \}}-K .` | $\omega^{g}=\omega^{\{\}}-K.$ | $\omega^{g}=\omega^{\{\}}-K.$ |
| mielke-geometrodynamics_EQ0258 (4.3.23) | 94 | 1.000 | `d \vartheta-\left[\omega^{\{ \}}, \vartheta\right]=0` | $d\vartheta-\left[\omega^{\{\}},\vartheta\right]=0$ | $d\vartheta-[\omega^{\{\}},\vartheta]=0$ |
| mielke-geometrodynamics_EQ0259 (4.3.24) | 94 | 1.000 | `\Theta=[K, \vartheta]` | $\Theta=[K,\vartheta]$ | $\Theta=[K,\vartheta]$ |
| mielke-geometrodynamics_EQ0265 (4.3.30) | 95 | 1.000 | `\left\{\begin{array}{c} \kappa \\ i j \end{array}\right\}=\frac{1}{2} g^{\kappa l}\left(\partial_{i} g_{j l}+ \partial_{j} g_{i l}-\partial_{l} g_{i j}\right)` | $\left\{\begin{array}{c}\kappa\\ ij\end{array}\right\}=\frac{1}{2}g^{\kappa l}\left(\partial_{i}g_{jl}+\partial_{j}g_{il}-\partial_{l}g_{ij}\right)$ | $\left\{\begin{array}{c}\kappa\\ ij\end{array}\right\}=\frac{1}{2}g^{\kappa l}(\partial_{i}g_{jl}+\partial_{j}g_{il}-\partial_{l}g_{ij})$ |
| mielke-geometrodynamics_EQ0272 (4.4.1) | 96 | 1.000 | `L_{g}=L\left(g_{\alpha \beta} ; \vartheta,\left( \omega^{g}\right), \Theta, \Omega^{g}\right) .` | $L_{g}=L\left(g_{\alpha\beta};\vartheta,\left(\omega^{g}\right),\Theta,\Omega^{g}\right).$ | $L_{g}=L(g_{\alpha\beta};\vartheta,(\omega^{g}),\Theta,\Omega^{g}).$ |
| mielke-geometrodynamics_EQ0273 (4.4.2) | 97 | 1.000 | `\delta L_{g}=: \delta \vartheta \wedge E+\delta \Theta \wedge \Pi^{\mathrm{T}}+\delta \Omega^{g} \wedge \Pi^{ \mathrm{L}},` | $\delta L_{g}=:\delta\vartheta\wedge E+\delta\Theta\wedge\Pi^{\mathrm{T}}+\delta\Omega^{g}\wedge\Pi^{\mathrm{L}},$ | $\delta L_{g}=:\delta\vartheta\wedge E+\delta\Theta\wedge\Pi^{\mathrm{T}}+\delta\Omega^{g}\wedge\Pi^{\mathrm{L}},$ |
| mielke-geometrodynamics_EQ0274 (4.4.7) | 97 | 1.000 | `\delta \Theta=\delta\left(d \vartheta-\left[\omega^{ \mathrm{L}}, \vartheta\right]\right)` | $\delta\Theta=\delta\left(d\vartheta-\left[\omega^{\mathrm{L}},\vartheta\right]\right)$ | $\delta\Theta=\delta(d\vartheta-[\omega^{\mathrm{L}},\vartheta])$ |
| mielke-geometrodynamics_EQ0277 (4.4.5) | 97 | 1.000 | `S=\int_{M}\left(L_{g}+L_{\mathrm{mat}}\right)` | $S=\int_{M}\left(L_{g}+L_{\mathrm{mat}}\right)$ | $S=\int\limits_{M}(L_{g}+L_{\mathrm{mat}})$ |
| mielke-geometrodynamics_EQ0279 (4.4.8) | 98 | 1.000 | `\delta L_{\text {matter }}=: \delta \vartheta \wedge \Sigma+\delta \omega^{g} \wedge \tau_{s}+\delta_{\varphi} \wedge \lambda^{\varphi}` | $\delta L_{\text{matter }}=:\delta\vartheta\wedge\Sigma+\delta\omega^{g}\wedge\tau_{s}+\delta_{\varphi}\wedge\lambda^{\varphi}$ | $\delta L_{\text{matter }}=:\delta\vartheta\wedge\Sigma+\delta\omega^{g}\wedge\tau_{s}+\delta_{\varphi}\wedge\lambda^{\varphi}$ |
| mielke-geometrodynamics_EQ0280 (4.4.9) | 98 | 1.000 | `D \Theta \equiv\left[\vartheta, \Omega^{\mathrm{L}} \right]` | $D\Theta\equiv\left[\vartheta,\Omega^{\mathrm{L}}\right]$ | $D\Theta\equiv[\vartheta,\Omega^{\mathrm{L}}]$ |
| mielke-geometrodynamics_EQ0281 (4.4.10) | 98 | 1.000 | `D \Omega^{g} \equiv 0,` | $D\Omega^{g}\equiv 0,$ | $D\Omega^{g}\equiv 0,$ |
| mielke-geometrodynamics_EQ0283 (4.4.12) | 99 | 1.000 | `D[\Theta, \vartheta] \equiv\left[\vartheta \wedge \vartheta, \Omega^{g}\right]` | $D[\Theta,\vartheta]\equiv[\vartheta\wedge\vartheta,\Omega^{g}]$ | $D[\Theta,\vartheta]\equiv[\vartheta\wedge\vartheta,\Omega^{g}]$ |
| mielke-geometrodynamics_EQ0289 (4.4.18) | 100 | 1.000 | `\left[\Omega^{g}, \Pi^{L}\right]+\mathrm{E}_{[]}=0` | $\left[\Omega^{g},\Pi^{L}\right]+\mathrm{E}_{[]}=0$ | $[\Omega^{g},\Pi^{L}]+\mathrm{E}_{[]}=0$ |
| mielke-geometrodynamics_EQ0290 (4.5.1) | 100 | 1.000 | `L_{\mathrm{mat}}=L\left(g_{\alpha \beta}, \vartheta^{ \alpha}, \Psi, D \Psi\right) .` | $L_{\mathrm{mat}}=L\left(g_{\alpha\beta},\vartheta^{\alpha},\Psi,D\Psi\right).$ | $L_{\mathrm{mat}}=L(g_{\alpha\beta},\vartheta^{\alpha},\Psi,D\Psi).$ |
| mielke-geometrodynamics_EQ0291 (4.5.2) | 100 | 1.000 | `\Sigma_{\alpha}:=\frac{\partial L}{\partial \vartheta^{ \alpha}}, \quad \sigma^{\alpha \beta}:=2 \frac{\partial L}{\partial g_{\alpha \beta}}, \quad \text { and } \quad \tau_{\alpha \beta}:=\frac{\partial L}{\partial \Gamma^{\alpha \beta}}=I_{\alpha \beta} \Psi \wedge \frac{\partial L}{\partial D \Psi}` | $\Sigma_{\alpha}:=\frac{\partial L}{\partial\vartheta^{\alpha}},\quad\sigma^{\alpha\beta}:=2\frac{\partial L}{\partial g_{\alpha\beta}},\quad\text{and}\quad\tau_{\alpha\beta}:=\frac{\partial L}{\partial\Gamma^{\alpha\beta}}=I_{\alpha\beta}\Psi\wedge\frac{\partial L}{\partial D\Psi}$ | $\Sigma_{\alpha}:=\frac{\partial L}{\partial\vartheta^{\alpha}},\quad\sigma^{\alpha\beta}:=2\frac{\partial L}{\partial g_{\alpha\beta}},\quad\text{and}\quad\tau_{\alpha\beta}:=\frac{\partial L}{\partial\Gamma^{\alpha\beta}}=I_{\alpha\beta}\Psi\wedge\frac{\partial L}{\partial D\Psi}$ |
| mielke-geometrodynamics_EQ0297 (8.10) | 101 | 1.000 | `\delta L=\delta g_{\alpha \beta} \wedge \frac{\partial L}{\partial g_{\alpha \beta}}+\delta \vartheta^{\alpha} \wedge \frac{\partial L}{\partial \vartheta^{\alpha}}+ \delta \Psi \wedge \frac{\partial L}{\partial \Psi}+ \delta(D \Psi) \wedge \frac{\partial L}{\partial D \Psi} .` | $\delta L=\delta g_{\alpha\beta}\wedge\frac{\partial L}{\partial g_{\alpha\beta}}+\delta\vartheta^{\alpha}\wedge\frac{\partial L}{\partial\vartheta^{\alpha}}+\delta\Psi\wedge\frac{\partial L}{\partial\Psi}+\delta(D\Psi)\wedge\frac{\partial L}{\partial D\Psi}.$ | $\delta L=\delta g_{\alpha\beta}\wedge\frac{\partial L}{\partial g_{\alpha\beta}}+\delta\vartheta^{\alpha}\wedge\frac{\partial L}{\partial\vartheta^{\alpha}}+\delta\Psi\wedge\frac{\partial L}{\partial\Psi}+\delta(D\Psi)\wedge\frac{\partial L}{\partial D\Psi}.$ |
| mielke-geometrodynamics_EQ0300 (4.5.11) | 102 | 1.000 | `\delta L=-\varepsilon_{\alpha}{ }^{\beta}\left[-\sigma^{ \alpha \gamma} g_{\gamma \beta}+\vartheta^{\alpha} \wedge \frac{\partial L}{\partial \vartheta^{\beta}}+D \frac{ \partial L}{\partial \Gamma_{\alpha}{ }^{\beta}}+I^{ \alpha}{ }_{\beta} \Psi \wedge \frac{\delta L}{\delta \Psi}\right] .` | $\delta L=-\varepsilon_{\alpha}{}^{\beta}\left[-\sigma^{\alpha\gamma}g_{\gamma\beta}+\vartheta^{\alpha}\wedge\frac{\partial L}{\partial\vartheta^{\beta}}+D\frac{\partial L}{\partial\Gamma_{\alpha}{}^{\beta}}+I^{\alpha}{}_{\beta}\Psi\wedge\frac{\delta L}{\delta\Psi}\right].$ | $\delta L=-\varepsilon_{\alpha}{}^{\beta}\left[-\sigma^{\alpha\gamma}g_{\gamma\beta}+\vartheta^{\alpha}\wedge\frac{\partial L}{\partial\vartheta^{\beta}}+D\frac{\partial L}{\partial\Gamma_{\alpha}{}^{\beta}}+I^{\alpha}{}_{\beta}\Psi\wedge\frac{\delta L}{\delta\Psi}\right].$ |

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| mielke-geometrodynamics_EQ0301 (4.5.12) | 102 | 1.000 | D \tau_{\alpha \beta}+\vartheta_{[\alpha} \wedge \Sigma_{ \beta]}=-I_{\alpha \beta} \Psi \wedge \frac{\delta L}{ \delta \Psi} \simeq 0 . | $D\tau_{\alpha\beta} + \vartheta_{[\alpha} \wedge \Sigma_{\beta]} = -I_{\alpha\beta}\Psi \wedge \frac{\delta L}{\delta \Psi} \simeq 0.$ | $D\tau_{\alpha\beta} + \vartheta_{[\alpha} \wedge \Sigma_{\beta]} = -I_{\alpha\beta}\Psi \wedge \frac{\delta L}{\delta \Psi} \simeq 0\,.$ |
| mielke-geometrodynamics_EQ0303 (4.5.13) | 102 | 1.000 | \begin{aligned} & R_{\alpha}{ }^{\beta}=d \Gamma_{ \alpha}{ }^{\beta} \\ & -\Gamma_{\alpha}{ }^{\gamma} \wedge \Gamma_{\gamma}{ }^{\beta} \end{aligned} | $\begin{aligned} & R_{\alpha}{}^{\beta}=d \Gamma_{\alpha}{}^{\beta} \\ & -\Gamma_{\alpha}{}^{\gamma} \wedge \Gamma_{\gamma}{}^{\beta} \end{aligned}$ | $\begin{aligned} & R_{\alpha}{}^{\beta}=d \Gamma_{\alpha}{}^{\beta} \\ & -\Gamma_{\alpha}{}^{\gamma} \wedge \Gamma_{\gamma}{}^{\beta} \end{aligned}$ |
| mielke-geometrodynamics_EQ0307 (4.5.17) | 103 | 1.000 | \hat{M}:=M^{3} /\left[M^{2}+\frac{\Lambda}{3} J^{2} \right], \quad \hat{J}:=J M^{2} /\left[M^{2}+\frac{ \Lambda}{3} J^{2}\right], | $\hat{M}:=M^{3} /\left[M^{2}+\frac{\Lambda}{3} J^{2} \right], \quad \hat{J}:=J M^{2} /\left[M^{2}+\frac{\Lambda}{3} J^{2}\right],$ | $\hat{M}:=M^{3} /\left[M^{2}+\frac{\Lambda}{3} J^{2} \right], \quad \hat{J}:=J M^{2} /\left[M^{2}+\frac{\Lambda}{3} J^{2}\right],$ |
| mielke-geometrodynamics_EQ0317 (5.2.1) | 110 | 1.000 | L_{\mathrm{D}}=L(\gamma, \psi, D \psi)=\frac{i}{2}\left \{\bar{\psi}^{*} \gamma \wedge D \psi+\overline{D \psi} \wedge^{*} \gamma \psi\right\}-m \bar{\psi} \psi \eta, | $L_{\mathrm{D}}=L(\gamma, \psi, D \psi)=\frac{i}{2}\left\{\bar{\psi}^{*} \gamma \wedge D \psi+\overline{D \psi} \wedge^{*} \gamma \psi\right\}-m \bar{\psi} \psi \eta,$ | $L_{\mathrm{D}}=L(\gamma, \psi, D \psi)=\frac{i}{2}\left\{\bar{\psi}^{*} \gamma \wedge D \psi+\overline{D \psi} \wedge^{*} \gamma \psi\right\}-m \bar{\psi} \psi \eta\,,$ |
| mielke-geometrodynamics_EQ0322 (5.2.6) | 111 | 1.000 | \left.d U=T^{\alpha} \wedge \mu_{\alpha}-\vartheta^{ \alpha} \wedge D \mu_{\alpha}=\vartheta^{\alpha} \wedge \left[e_{\beta}\right\rfloor\left(T^{\beta} \wedge \mu_{ \alpha}\right)-D \mu_{\alpha}\right] | $dU=T^{\alpha} \wedge \mu_{\alpha}-\vartheta^{\alpha} \wedge D \mu_{\alpha}=\vartheta^{\alpha} \wedge \left[e_{\beta}\right\rfloor\left(T^{\beta} \wedge \mu_{\alpha}\right)-D \mu_{\alpha}\right]$ | $dU=T^{\alpha} \wedge \mu_{\alpha}-\vartheta^{\alpha} \wedge D \mu_{\alpha}=\vartheta^{\alpha} \wedge \left[e_{\beta}\right\rfloor\left(T^{\beta} \wedge \mu_{\alpha}\right)-D \mu_{\alpha}\right]$ |
| mielke-geometrodynamics_EQ0324 (5.3.1) | 111 | 1.000 | L_{\mathrm{EC}}:=-\frac{1}{2 \kappa} R^{\alpha \beta} \wedge \eta_{\alpha \beta}, | $L_{\mathrm{EC}}:=-\frac{1}{2 \kappa} R^{\alpha \beta} \wedge \eta_{\alpha \beta},$ | $L_{\mathrm{EC}}:=-\frac{1}{2 \kappa} R^{\alpha \beta} \wedge \eta_{\alpha \beta},$ |
| mielke-geometrodynamics_EQ0325 (5.3.2) | 112 | 1.000 | G_{\alpha}:=\frac{1}{2} R^{\beta \gamma} \wedge \eta_{ \alpha \beta \gamma}=\kappa \Sigma_{\alpha}, | $G_{\alpha}:=\frac{1}{2} R^{\beta \gamma} \wedge \eta_{\alpha \beta \gamma}=\kappa \Sigma_{\alpha},$ | $G_{\alpha}:=\frac{1}{2} R^{\beta \gamma} \wedge \eta_{\alpha \beta \gamma}=\kappa \Sigma_{\alpha}\,,$ |
| mielke-geometrodynamics_EQ0327 (5.3.4) | 112 | 1.000 | D^{\{ \}} G_{\alpha}^{\{ \}} \equiv 0 | $D^{\{\}} G_{\alpha}^{\{\}} \equiv 0$ | $D^{\{\}} G_{\alpha}^{\{\}} \equiv 0$ |
| mielke-geometrodynamics_EQ0331 (5.3.8) | 112 | 1.000 | D[\gamma, \Theta] \equiv 2 i\left[\sigma, \Omega^{g} \right], \quad D\left[\gamma, \Omega^{g}\right] \equiv \left[\Theta, \Omega^{g}\right], | $D[\gamma, \Theta] \equiv 2 i\left[\sigma, \Omega^{g}\right], \quad D\left[\gamma, \Omega^{g}\right] \equiv\left[\Theta, \Omega^{g}\right],$ | $D[\gamma, \Theta] \equiv 2 i\left[\sigma, \Omega^{g}\right], \quad D\left[\gamma, \Omega^{g}\right] \equiv\left[\Theta, \Omega^{g}\right],$ |
| mielke-geometrodynamics_EQ0332 (5.3.9) | 113 | 1.000 | D G \equiv i\left[\Theta, \gamma_{5} \Omega^{g}\right] | $D G \equiv i\left[\Theta, \gamma_{5} \Omega^{g}\right]$ | $D G \equiv i\left[\Theta, \gamma_{5} \Omega^{g}\right]$ |
| mielke-geometrodynamics_EQ0333 (5.3.10) | 113 | 1.000 | \eta_{\alpha \beta \gamma} \wedge T^{\gamma}=2 \kappa \tau_{\alpha \beta} | $\eta_{\alpha \beta \gamma} \wedge T^{\gamma}=2 \kappa \tau_{\alpha \beta}$ | $\eta_{\alpha \beta \gamma} \wedge T^{\gamma}=2 \kappa \tau_{\alpha \beta}$ |
| mielke-geometrodynamics_EQ0334 (5.3.11) | 113 | 1.000 | \mathrm{T}_{\mu \nu}:=\frac{2}{\sqrt{g}} \frac{\delta L}{ \delta g_{\mu \nu}} | $\mathrm{T}_{\mu \nu}:=\frac{2}{\sqrt{g}} \frac{\delta L}{\delta g_{\mu \nu}}$ | $\mathrm{T}_{\mu \nu}:=\frac{2}{\sqrt{g}} \frac{\delta L}{\delta g_{\mu \nu}}$ |
| mielke-geometrodynamics_EQ0338 (5.3.15) | 114 | 1.000 | { }^{(3)} T_{\alpha}=\frac{(-1)^{s}}{3} *\left( \vartheta_{\alpha} \wedge \mathscr{A}\right) | ${ }^{(3)} T_{\alpha}=\frac{(-1)^{s}}{3} *\left(\vartheta_{\alpha} \wedge \mathscr{A}\right)$ | ${ }^{(3)} T_{\alpha}=\frac{(-1)^{s}}{3} *\left(\vartheta_{\alpha} \wedge \mathscr{A}\right)$ |
| mielke-geometrodynamics_EQ0342 (5.3.19) | 115 | 1.000 | \Delta \widetilde{L}:=\kappa\left(L_{\mathrm{EC}}-L_{ \mathrm{HE}}\right) \simeq \frac{\kappa^{2}}{48} j_{5} \wedge^{*} j_{5}=4 f^{2} j_{5} \wedge^{*} j_{5}, | $\Delta \widetilde{L}:=\kappa\left(L_{\mathrm{EC}}-L_{\mathrm{HE}}\right) \simeq \frac{\kappa^{2}}{48} j_{5} \wedge^{*} j_{5}=4 f^{2} j_{5} \wedge^{*} j_{5},$ | $\Delta \widetilde{L}:=\kappa\left(L_{\mathrm{EC}}-L_{\mathrm{HE}}\right) \simeq \frac{\kappa^{2}}{48} j_{5} \wedge^{*} j_{5}=4 f^{2} j_{5} \wedge^{*} j_{5}\,,$ |
| mielke-geometrodynamics_EQ0344 (5.4.2) | 116 | 1.000 | L_{\mathrm{HE}}:=L_{\mathrm{HE}}+\frac{\Lambda}{\kappa} \eta | $L_{\mathrm{HE}}:=L_{\mathrm{HE}}+\frac{\Lambda}{\kappa} \eta$ | $L_{\mathrm{HE}}:=L_{\mathrm{HE}}+\frac{\Lambda}{\kappa} \eta$ |
| mielke-geometrodynamics_EQ0345 (5.4.3) | 116 | 1.000 | g_{\mathrm{N}}:=\kappa k^{2}, \quad \lambda:=\Lambda / k^{2}, | $g_{\mathrm{N}}:=\kappa k^{2}, \quad \lambda:=\Lambda / k^{2},$ | $g_{\mathrm{N}}:=\kappa k^{2}, \quad \lambda:=\Lambda / k^{2}\,,$ |
| mielke-geometrodynamics_EQ0346 (5.4.4) | 116 | 1.000 | k \frac{\partial}{\partial k} g_{\mathrm{N}}=\beta_{1} \left(g_{\mathrm{N}}, \lambda\right)=\left(2+d_{ \mathrm{N}}\right) g_{\mathrm{N}}, \quad k \frac{ \partial}{\partial k} \lambda=\beta_{2}\left(g_{ \mathrm{N}}, \lambda\right), | $k \frac{\partial}{\partial k} g_{\mathrm{N}}=\beta_{1}\left(g_{\mathrm{N}}, \lambda\right)=\left(2+d_{\mathrm{N}}\right) g_{\mathrm{N}}, \quad k \frac{\partial}{\partial k} \lambda=\beta_{2}\left(g_{\mathrm{N}}, \lambda\right),$ | $k \frac{\partial}{\partial k} g_{\mathrm{N}}=\beta_{1}\left(g_{\mathrm{N}}, \lambda\right)=\left(2+d_{\mathrm{N}}\right) g_{\mathrm{N}}, \quad k \frac{\partial}{\partial k} \lambda=\beta_{2}\left(g_{\mathrm{N}}, \lambda\right),$ |

| Identifier | Page | Conf. | LaTeX source | Rendered | Image |
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| mielke-geometrodynamics_EQ0348 (5.4.6) | 117 | 1.000 | `f^{2}=\frac{1}{192} \kappa^{2}=3 \times 2^{-10}\left(\frac{\mu}{\Lambda}\right)^{2}=2^{-8} \frac{\mu}{\rho_{\Lambda}}` | $f^2 = \frac{1}{192}\kappa^2 = 3 \times 2^{-10}\left(\frac{\mu}{\Lambda}\right)^2 = 2^{-8}\frac{\mu}{\rho_\Lambda}$ | $f^2 = \frac{1}{192}\kappa^2 = 3 \times 2^{-10}\left(\frac{\mu}{\Lambda}\right)^2 = 2^{-8}\frac{\mu}{\rho_\Lambda}$ |
| mielke-geometrodynamics_EQ0350 (6.2.1) | 123 | 1.000 | `C_{\mathrm{TT}}:=\frac{1}{2 \ell^{2}}\left(\vartheta^{\alpha} \wedge T_{\alpha}\right)=-\frac{(-1)^{\mathrm{sig}}}{2 \ell^{2}} * \mathscr{A},` | $C_{\mathrm{TT}} := \frac{1}{2\ell^2}\left(\vartheta^\alpha \wedge T_\alpha\right) = -\frac{(-1)^{\mathrm{sig}}}{2\ell^2} * \mathscr{A},$ | $C_{\mathrm{TT}} := \frac{1}{2\ell^2}\left(\vartheta^\alpha \wedge T_\alpha\right) = -\frac{(-1)^{\mathrm{sig}}}{2\ell^2} * \mathscr{A},$ |
| mielke-geometrodynamics_EQ0351 (6.2.2) | 124 | 1.000 | `\begin{aligned} C_{\mathrm{RR}} & :=-\operatorname{Tr}\left(\Gamma \wedge \Omega-\frac{1}{3} \Gamma \wedge \Gamma \wedge \Gamma\right) \\ & =-\frac{1}{2}\left(\Gamma_{\alpha}{ }^{\beta} \wedge R_{\beta}{ }^{\alpha}+\frac{1}{3} \Gamma_{\alpha}{ }^{\beta} \wedge \Gamma_{\beta}{ }^{\gamma} \wedge \Gamma_{\gamma}{ }^{\alpha}\right) . \end{aligned}` | $\begin{aligned} C_{\mathrm{RR}} & :=-\operatorname{Tr}\left(\Gamma \wedge \Omega-\frac{1}{3} \Gamma \wedge \Gamma \wedge \Gamma\right) \\ & =-\frac{1}{2}\left(\Gamma_{\alpha}{ }^{\beta} \wedge R_{\beta}{ }^{\alpha}+\frac{1}{3} \Gamma_{\alpha}{ }^{\beta} \wedge \Gamma_{\beta}{ }^{\gamma} \wedge \Gamma_{\gamma}{ }^{\alpha}\right) . \end{aligned}$ | $\begin{aligned} C_{\mathrm{RR}} & :=-\operatorname{Tr}\left(\Gamma \wedge \Omega-\frac{1}{3} \Gamma \wedge \Gamma \wedge \Gamma\right) \\ & =-\frac{1}{2}\left(\Gamma_{\alpha}{ }^{\beta} \wedge R_{\beta}{ }^{\alpha}+\frac{1}{3} \Gamma_{\alpha}{ }^{\beta} \wedge \Gamma_{\beta}{ }^{\gamma} \wedge \Gamma_{\gamma}{ }^{\alpha}\right) . \end{aligned}$ |
| mielke-geometrodynamics_EQ0352 (6.2.3) | 124 | 1.000 | `\hat{C}=C_{\mathrm{RR}}-2 C_{\mathrm{TT}}` | $\hat{C} = C_{\mathrm{RR}} - 2C_{\mathrm{TT}}$ | $\hat{C} = C_{\mathrm{RR}} - 2C_{\mathrm{TT}}$ |
| mielke-geometrodynamics_EQ0353 (6.2.4) | 124 | 1.000 | `d C_{\mathrm{TT}} \equiv \frac{1}{2 \ell^{2}}\left(T^{\alpha} \wedge T_{\alpha}+R_{\alpha \beta} \wedge \vartheta^{\alpha} \wedge \vartheta^{\beta}\right),` | $dC_{\mathrm{TT}} \equiv \frac{1}{2\ell^2}\left(T^\alpha \wedge T_\alpha + R_{\alpha\beta} \wedge \vartheta^\alpha \wedge \vartheta^\beta\right),$ | $dC_{\mathrm{TT}} \equiv \frac{1}{2\ell^2}\left(T^\alpha \wedge T_\alpha + R_{\alpha\beta} \wedge \vartheta^\alpha \wedge \vartheta^\beta\right),$ |
| mielke-geometrodynamics_EQ0354 (6.2.5) | 124 | 1.000 | `d C_{\mathrm{RR}}=-\operatorname{Tr}(\Omega \wedge \Omega)=\frac{1}{2} R^{\alpha \beta} \wedge R_{\alpha \beta}` | $dC_{\mathrm{RR}} = -\operatorname{Tr}(\Omega \wedge \Omega) = \frac{1}{2} R^{\alpha\beta} \wedge R_{\alpha\beta}$ | $dC_{\mathrm{RR}} = -\operatorname{Tr}\,(\Omega \wedge \Omega) = \frac{1}{2} R^{\alpha\beta} \wedge R_{\alpha\beta}$ |
| mielke-geometrodynamics_EQ0355 (6.2.6) | 124 | 1.000 | `D R_{\alpha \beta} \equiv 0,` | $DR_{\alpha\beta} \equiv 0,$ | $DR_{\alpha\beta} \equiv 0,$ |
| mielke-geometrodynamics_EQ0359 (6.2.10) | 125 | 1.000 | `H_{\alpha}^{\\|}:=-\partial L_{\\|} / \partial T^{\alpha}=(1 / \kappa) \eta_{\alpha \beta \gamma} \wedge K^{\beta \gamma}` | $H_\alpha^{\parallel} := -\partial L_{\parallel}/\partial T^\alpha = (1/\kappa)\eta_{\alpha\beta\gamma} \wedge K^{\beta\gamma}$ | $H_\alpha^{\parallel} := -\partial L_{\parallel}/\partial T^\alpha = (1/\kappa)\eta_{\alpha\beta\gamma} \wedge K^{\beta\gamma}$ |
| mielke-geometrodynamics_EQ0361 (6.2.12) | 126 | 1.000 | `\tilde{L}_{\\|}=L_{\\|}-R^{\alpha \beta} \wedge \lambda_{\alpha \beta} .` | $\tilde{L}_{\parallel} = L_{\parallel} - R^{\alpha\beta} \wedge \lambda_{\alpha\beta}.$ | $\tilde{L}_{\parallel} = L_{\parallel} - R^{\alpha\beta} \wedge \lambda_{\alpha\beta}.$ |
| mielke-geometrodynamics_EQ0362 (6.2.14) | 126 | 1.000 | `\begin{gathered} D H_{\alpha}^{\\|}-E_{\alpha}^{\\|}=\Sigma_{\alpha}, \\ D \lambda_{\alpha \beta}+\vartheta_{[\alpha} \wedge H_{\beta]}^{\\|}=\tau_{\alpha \beta}, \end{gathered}` | $\begin{gathered} DH_\alpha^{\parallel} - E_\alpha^{\parallel} = \Sigma_\alpha, \\ D\lambda_{\alpha\beta} + \vartheta_{[\alpha} \wedge H_{\beta]}^{\parallel} = \tau_{\alpha\beta}, \end{gathered}$ | $\begin{gathered} DH_\alpha^{\parallel} - E_\alpha^{\parallel} = \Sigma_\alpha, \\ D\lambda_{\alpha\beta} + \vartheta_{[\alpha} \wedge H_{\beta]}^{\parallel} = \tau_{\alpha\beta}, \end{gathered}$ |
| mielke-geometrodynamics_EQ0363 (6.2.15) | 126 | 1.000 | `R^{\alpha \beta}=0 .` | $R^{\alpha\beta} = 0.$ | $R^{\alpha\beta} = 0.$ |
| mielke-geometrodynamics_EQ0365 (6.2.17) | 126 | 1.000 | `D\left(\tau_{\alpha \beta}-\vartheta_{[\alpha} \wedge H_{\beta]}^{\\|}\right)=0` | $D\left(\tau_{\alpha\beta} - \vartheta_{[\alpha} \wedge H_{\beta]}^{\parallel}\right) = 0$ | $D(\tau_{\alpha\beta} - \vartheta_{[\alpha} \wedge H_{\beta]}^{\parallel}) = 0$ |
| mielke-geometrodynamics_EQ0369 (6.2.20) | 127 | 1.000 | `\stackrel{( \pm)}{C}_{\mathrm{TT}}:=\frac{1}{2 \ell^{2}}\left(\vartheta^{\alpha} \wedge \stackrel{( \pm)}{T}_{\alpha}\right),` | $\overset{(\pm)}{C}_{\mathrm{TT}} := \frac{1}{2\ell^2}\left(\vartheta^\alpha \wedge \overset{(\pm)}{T}_\alpha\right),$ | $\overset{(\pm)}{C}_{\mathrm{TT}} := \frac{1}{2\ell^2}\left(\vartheta^\alpha \wedge \overset{(\pm)}{T}_\alpha\right),$ |
| mielke-geometrodynamics_EQ0373 (6.2.24) | 127 | 1.000 | `\stackrel{( \pm)( \pm)}{D} \Pi_{\alpha}=\Sigma_{\alpha} .` | $\overset{(\pm)(\pm)}{D}\Pi_\alpha = \Sigma_\alpha.$ | $\overset{(\pm)(\pm)}{D}\Pi_\alpha = \Sigma_\alpha.$ |

| Identifier | Page | Conf. | LaTeX source | Rendered | Image |
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| mielke-geometrodynamics_EQ0379 (6.2.30) | 128 | 1.000 | `\stackrel{( \pm)}{L}_{\mathrm{YM}}=\mp(1 / 4) \operatorname{Tr}(\stackrel{( \pm)}{F} \wedge \stackrel{( \pm)}{F})` | $\overset{(\pm)}{L}{}_{\mathrm{YM}}=\mp(1/4)\operatorname{Tr}(\overset{(\pm)}{F} \wedge \overset{(\pm)}{F})$ | $\overset{(\pm)}{L}{}_{\mathrm{YM}}=\mp(1/4)\operatorname{Tr}\left(\overset{(\pm)}{F} \wedge \overset{(\pm)}{F}\right)$ |
| mielke-geometrodynamics_EQ0383 (6.3.1) | 129 | 1.000 | `\check{E}_{\alpha}:=E_{\alpha}+\Gamma_{\alpha}{ }^{\beta} \wedge H_{\beta}+\Sigma_{\alpha} \cong d H_{\alpha},` | $\check{E}_{\alpha}:=E_{\alpha}+\Gamma_{\alpha}{}^{\beta} \wedge H_{\beta}+\Sigma_{\alpha} \cong d H_{\alpha},$ | $\check{E}_{\alpha}:=E_{\alpha}+\Gamma_{\alpha}{}^{\beta} \wedge H_{\beta}+\Sigma_{\alpha} \cong d H_{\alpha},$ |
| mielke-geometrodynamics_EQ0386 (6.4.1) | 130 | 1.000 | `n:=\partial_{t}-N^{A} \partial / \partial x^{A}, \quad A=1,2,3,` | $n:=\partial_{t}-N^{A} \partial / \partial x^{A}, \quad A=1,2,3,$ | $n:=\partial_{t}-N^{A} \partial / \partial x^{A}, \quad A=1,2,3,$ |
| mielke-geometrodynamics_EQ0395 (6.4.10) | 132 | 1.000 | `\Sigma_{\alpha}:=\frac{\partial L}{\partial \vartheta^{ \alpha}}, \quad \tau_{\alpha \beta}:=\frac{\partial L}{ \partial \Gamma^{\alpha \beta}}=\rho\left(I_{\alpha \beta}\right) \Psi \wedge \frac{\partial L}{\partial D \Psi}` | $\Sigma_{\alpha}:=\frac{\partial L}{\partial \vartheta^{ \alpha}}, \quad \tau_{\alpha \beta}:=\frac{\partial L}{ \partial \Gamma^{\alpha \beta}}=\rho\left(I_{\alpha \beta}\right) \Psi \wedge \frac{\partial L}{\partial D \Psi}$ | $\Sigma_{\alpha}:=\frac{\partial L}{\partial \vartheta^{ \alpha}}, \quad \tau_{\alpha \beta}:=\frac{\partial L}{ \partial \Gamma^{\alpha \beta}}=\rho\left(I_{\alpha \beta}\right) \Psi \wedge \frac{\partial L}{\partial D \Psi}$ |
| mielke-geometrodynamics_EQ0408 (6.4.28) | 136 | 1.000 | `d s^{2}=h^{2} d r^{2}+f^{2}\left[d \psi^{2}+\sin ^{2} \psi\left(d \theta^{2}+\sin ^{2} \theta d \phi^{2}\right) \right],` | $d s^{2}=h^{2} d r^{2}+f^{2}\left[d \psi^{2}+\sin ^{2} \psi\left(d \theta^{2}+\sin ^{2} \theta d \phi^{2}\right) \right],$ | $d s^{2}=h^{2} d r^{2}+f^{2}\left[d \psi^{2}+\sin ^{2} \psi\left(d \theta^{2}+\sin ^{2} \theta d \phi^{2}\right) \right],$ |
| mielke-geometrodynamics_EQ0410 (6.4.30) | 136 | 1.000 | `\ell^{2} \underline{C}_{\mathrm{TT}}=\frac{1}{2} \underline{\vartheta}^{\alpha} \wedge d \underline{ \vartheta}_{\alpha}=\frac{1}{2} \underline{\vartheta}^{A} \wedge d \underline{\vartheta}_{A}=3 \underline{ \vartheta}^{\hat{1}} \wedge \underline{\vartheta}^{ \hat{2}} \wedge \underline{\vartheta}^{\hat{3}}` | $\ell^{2} \underline{C}_{\mathrm{TT}}=\frac{1}{2} \underline{\vartheta}^{\alpha} \wedge d \underline{\vartheta}_{\alpha}=\frac{1}{2} \underline{\vartheta}^{A} \wedge d \underline{\vartheta}_{A}=3 \underline{\vartheta}^{\hat{1}} \wedge \underline{\vartheta}^{\hat{2}} \wedge \underline{\vartheta}^{\hat{3}}$ | $\ell^{2} \underline{C}_{\mathrm{TT}}=\frac{1}{2} \underline{\vartheta}^{\alpha} \wedge d \underline{\vartheta}_{\alpha}=\frac{1}{2} \underline{\vartheta}^{A} \wedge d \underline{\vartheta}_{A}=3 \underline{\vartheta}^{\hat{1}} \wedge \underline{\vartheta}^{\hat{2}} \wedge \underline{\vartheta}^{\hat{3}}$ |
| mielke-geometrodynamics_EQ0412 (6.4.32) | 136 | 1.000 | `f=\frac{a r^{2}}{r^{2}+c^{2}}` | $f=\frac{a r^{2}}{r^{2}+c^{2}}$ | $f=\frac{a r^{2}}{r^{2}+c^{2}}$ |
| mielke-geometrodynamics_EQ0414 (6.5.2) | 137 | 1.000 | `\Psi(\gamma)=\int_{\mathscr{C} / \mathscr{G}} \mathscr{D} A W(A, \gamma) \Psi(A) .` | $\Psi(\gamma)=\int_{\mathscr{C} / \mathscr{G}} \mathscr{D} A W(A, \gamma) \Psi(A) .$ | $\Psi(\gamma)=\int_{\mathscr{C} / \mathscr{G}} \mathscr{D} A W(A, \gamma) \Psi(A) .$ |
| mielke-geometrodynamics_EQ0416 (6.5.4) | 137 | 1.000 | `\langle 0\| W(\gamma)\|0\rangle e^{\Lambda G(\gamma)} V( \gamma),` | $\langle 0\| W(\gamma)\|0\rangle e^{\Lambda G(\gamma)} V( \gamma),$ | $\langle 0\| W(\gamma)\|0\rangle e^{\Lambda G(\gamma)} V( \gamma),$ |
| mielke-geometrodynamics_EQ0417 (6.6.1) | 138 | 1.000 | `\int T=\int d \sigma=2 \pi N` | $\int T=\int d \sigma=2 \pi N$ | $\int T=\int d \sigma=2 \pi N$ |
| mielke-geometrodynamics_EQ0418 (6.6.2) | 139 | 1.000 | `W^{N}:=S^{3} \#^{N}\left(S^{1} \times S^{2}\right) .` | $W^{N}:=S^{3} \#^{N}\left(S^{1} \times S^{2}\right) .$ | $W^{N}:=S^{3} \#^{N}\left(S^{1} \times S^{2}\right) .$ |
| mielke-geometrodynamics_EQ0419 (6.7.1) | 140 | 1.000 | `L:=L_{\mathrm{EC}}+L_{\theta}+L_{\mathrm{D}},` | $L:=L_{\mathrm{EC}}+L_{\theta}+L_{\mathrm{D}},$ | $L:=L_{\mathrm{EC}}+L_{\theta}+L_{\mathrm{D}},$ |
| mielke-geometrodynamics_EQ0420 (6.7.2) | 140 | 1.000 | `L_{\theta}=\theta_{\mathrm{T}} d C_{\mathrm{TT}}+\theta_{ \mathrm{L}} d C_{\mathrm{RR}}` | $L_{\theta}=\theta_{\mathrm{T}} d C_{\mathrm{TT}}+\theta_{\mathrm{L}} d C_{\mathrm{RR}}$ | $L_{\theta}=\theta_{\mathrm{T}} d C_{\mathrm{TT}}+\theta_{\mathrm{L}} d C_{\mathrm{RR}}$ |
| mielke-geometrodynamics_EQ0421 (6.7.3) | 140 | 1.000 | `H_{\alpha}:=-\frac{\partial L}{\partial T^{\alpha}}=- \frac{\theta_{\mathrm{T}}}{\ell^{2}} T_{\alpha},` | $H_{\alpha}:=-\frac{\partial L}{\partial T^{\alpha}}=-\frac{\theta_{\mathrm{T}}}{\ell^{2}} T_{\alpha},$ | $H_{\alpha}:=-\frac{\partial L}{\partial T^{\alpha}}=-\frac{\theta_{\mathrm{T}}}{\ell^{2}} T_{\alpha},$ |
| mielke-geometrodynamics_EQ0422 (6.7.4) | 140 | 1.000 | `H_{\alpha \beta}:=-\frac{\partial L}{\partial R^{\alpha \beta}}=\frac{1}{2 \kappa} \eta_{\alpha \beta}-\frac{ \theta_{\mathrm{T}}}{2 \ell^{2}} \vartheta_{\alpha} \wedge \vartheta_{\beta}-\theta_{\mathrm{L}} R_{\alpha \beta}` | $H_{\alpha \beta}:=-\frac{\partial L}{\partial R^{\alpha \beta}}=\frac{1}{2 \kappa} \eta_{\alpha \beta}-\frac{ \theta_{\mathrm{T}}}{2 \ell^{2}} \vartheta_{\alpha} \wedge \vartheta_{\beta}-\theta_{\mathrm{L}} R_{\alpha \beta}$ | $H_{\alpha \beta}:=-\frac{\partial L}{\partial R^{\alpha \beta}}=\frac{1}{2 \kappa} \eta_{\alpha \beta}-\frac{ \theta_{\mathrm{T}}}{2 \ell^{2}} \vartheta_{\alpha} \wedge \vartheta_{\beta}-\theta_{\mathrm{L}} R_{\alpha \beta}$ |
| mielke-geometrodynamics_EQ0423 (6.7.5) | 140 | 1.000 | `D \theta_{\mathrm{T}} \wedge T_{\alpha}+\theta_{ \mathrm{T}} D T_{\alpha}+\ell^{2} E_{\alpha}=-\ell^{2} \Sigma_{\alpha} .` | $D \theta_{\mathrm{T}} \wedge T_{\alpha}+\theta_{\mathrm{T}} D T_{\alpha}+\ell^{2} E_{\alpha}=-\ell^{2} \Sigma_{\alpha} .$ | $D \theta_{\mathrm{T}} \wedge T_{\alpha}+\theta_{\mathrm{T}} D T_{\alpha}+\ell^{2} E_{\alpha}=-\ell^{2} \Sigma_{\alpha} .$ |

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| mielke-geometrodynamics_EQ0425 (6.7.7) | 140 | 1.000 | C_{\mathrm{TT}} \cong \frac{\kappa}{4 \ell^{2}} j_{5} | $C_{\mathrm{TT}} \cong \frac{\kappa}{4 \ell^{2}} j_{5}$ | $C_{\mathrm{TT}} \cong \frac{\kappa}{4 \ell^{2}} j_{5}$ |
| mielke-geometrodynamics_EQ0427 (6.7.9) | 141 | 1.000 | T^{\gamma} \wedge \eta_{\gamma \beta}+\kappa D \theta_{ \mathrm{L}} \wedge D T_{\beta}=0 . | $T^{\gamma} \wedge \eta_{\gamma \beta}+\kappa D \theta_{ \mathrm{L}} \wedge D T_{\beta}=0 .$ | $T^{\gamma} \wedge \eta_{\gamma \beta}+\kappa D \theta_{ \mathrm{L}} \wedge D T_{\beta}=0 .$ |
| mielke-geometrodynamics_EQ0429 (6.7.11) | 141 | 1.000 | \kappa d \theta_{\mathrm{L}} \wedge T_{\beta}=-\eta_{ \beta} | $\kappa d \theta_{ \mathrm{L}} \wedge T_{\beta}=-\eta_{ \beta}$ | $\kappa d \theta_{ \mathrm{L}} \wedge T_{\beta}=-\eta_{ \beta}$ |
| mielke-geometrodynamics_EQ0430 (6.7.12) | 141 | 1.000 | \kappa \ell^{2} d \theta_{\mathrm{L}} \wedge C_{ \mathrm{TT}}=2 \eta . | $\kappa \ell^{2} d \theta_{ \mathrm{L}} \wedge C_{ \mathrm{TT}}=2 \eta .$ | $\kappa \ell^{2} d \theta_{ \mathrm{L}} \wedge C_{ \mathrm{TT}}=2 \eta .$ |
| mielke-geometrodynamics_EQ0431 (6.7.13) | 141 | 1.000 | D T^{\gamma} \wedge \eta_{\alpha \beta \gamma}+\kappa D \theta_{\mathrm{T}} \wedge T_{[\alpha} \wedge \vartheta_{ \beta]} / \ell^{2}=2 \kappa\left(T_{[\alpha} \wedge \mu_{ \beta]}-\vartheta_{[\alpha} \wedge D \mu_{\beta]}\right) . | $D T^{\gamma} \wedge \eta_{\alpha \beta \gamma}+\kappa D \theta_{ \mathrm{T}} \wedge T_{[\alpha} \wedge \vartheta_{ \beta]} / \ell^{2}=2 \kappa\left(T_{[\alpha} \wedge \mu_{ \beta]}-\vartheta_{[\alpha} \wedge D \mu_{\beta]}\right) .$ | $D T^{\gamma} \wedge \eta_{\alpha \beta \gamma}+\kappa D \theta_{ \mathrm{T}} \wedge T_{[\alpha} \wedge \vartheta_{ \beta]} / \ell^{2}=2 \kappa\left(T_{[\alpha} \wedge \mu_{ \beta]}-\vartheta_{[\alpha} \wedge D \mu_{\beta]}\right) .$ |
| mielke-geometrodynamics_EQ0432 (6.8.1) | 142 | 1.000 | W=\int\left[L\left(\vartheta^{\alpha}, T^{\alpha}, R^{ \alpha \beta}, \Psi, D \Psi\right)+L_{g}\left(\vartheta^{ \alpha}, T^{\alpha}, R^{\alpha \beta}\right)\right] . | $W=\int\left[L\left(\vartheta^{\alpha}, T^{\alpha}, R^{ \alpha \beta}, \Psi, D \Psi\right)+L_{g}\left(\vartheta^{ \alpha}, T^{\alpha}, R^{\alpha \beta}\right)\right] .$ | $W=\int\left[L\left(\vartheta^{\alpha}, T^{\alpha}, R^{ \alpha \beta}, \Psi, D \Psi\right)+L_{g}\left(\vartheta^{ \alpha}, T^{\alpha}, R^{\alpha \beta}\right)\right] .$ |
| mielke-geometrodynamics_EQ0433 (6.8.3) | 142 | 1.000 | \begin{gathered} \frac{\delta L}{\delta \Psi}=\frac{ \partial L}{\partial \Psi}-(-1)^{p} D \frac{\partial L}{ \partial D \Psi}=0, \quad \text { (MATTER) } \\ D H_{ \alpha}-E_{\alpha}=\Sigma_{\alpha}, \quad \text { (FIRST) } \\ D H_{\alpha \beta}-E_{\alpha \beta}=\tau_{\alpha \beta} . \quad \text { (SECOND) } \end{gathered} | $\begin{gathered} \frac{\delta L}{\delta \Psi}=\frac{ \partial L}{\partial \Psi}-(-1)^{p} D \frac{\partial L}{ \partial D \Psi}=0, \quad \text { (MATTER) } \\ D H_{ \alpha}-E_{\alpha}=\Sigma_{\alpha}, \quad \text { (FIRST) } \\ D H_{\alpha \beta}-E_{\alpha \beta}=\tau_{\alpha \beta} . \quad \text { (SECOND) } \end{gathered}$ | $\begin{gathered} \frac{\delta L}{\delta \Psi}=\frac{ \partial L}{\partial \Psi}-(-1)^{p} D \frac{\partial L}{ \partial D \Psi}=0, \quad \text { (MATTER) } \\ D H_{ \alpha}-E_{\alpha}=\Sigma_{\alpha}, \quad \text { (FIRST) } \\ D H_{\alpha \beta}-E_{\alpha \beta}=\tau_{\alpha \beta} . \quad \text { (SECOND) } \end{gathered}$ |
| mielke-geometrodynamics_EQ0435 (6.8.6) | 142 | 1.000 | \Sigma_{\alpha}:=\frac{\delta L}{\delta \vartheta^{ \alpha}}=\frac{\partial L}{\partial \vartheta^{\alpha}}+D \frac{\partial L}{\partial T^{\alpha}} | $\Sigma_{\alpha}:=\frac{\delta L}{\delta \vartheta^{ \alpha}}=\frac{\partial L}{\partial \vartheta^{\alpha}}+D \frac{\partial L}{\partial T^{\alpha}}$ | $\Sigma_{\alpha}:=\frac{\delta L}{\delta \vartheta^{ \alpha}}=\frac{\partial L}{\partial \vartheta^{\alpha}}+D \frac{\partial L}{\partial T^{\alpha}}$ |
| mielke-geometrodynamics_EQ0436 (6.8.7) | 142 | 1.000 | \tau_{\alpha \beta}:=\frac{\delta L}{\delta \Gamma^{ \alpha \beta}}=\rho\left(I_{\alpha \beta}\right) \Psi \wedge \frac{\partial L}{\partial(D \Psi)}+\vartheta_{[ \alpha} \wedge \frac{\partial L}{\partial T^{\beta]}}+D \frac{\partial L}{\partial R^{\alpha \beta}}, | $\tau_{\alpha \beta}:=\frac{\delta L}{\delta \Gamma^{ \alpha \beta}}=\rho\left(I_{\alpha \beta}\right) \Psi \wedge \frac{\partial L}{\partial(D \Psi)}+\vartheta_{[ \alpha} \wedge \frac{\partial L}{\partial T^{\beta]}}+D \frac{\partial L}{\partial R^{\alpha \beta}},$ | $\tau_{\alpha \beta}:=\frac{\delta L}{\delta \Gamma^{ \alpha \beta}}=\rho\left(I_{\alpha \beta}\right) \Psi \wedge \frac{\partial L}{\partial(D \Psi)}+\vartheta_{[ \alpha} \wedge \frac{\partial L}{\partial T^{\beta]}}+D \frac{\partial L}{\partial R^{\alpha \beta}},$ |
| mielke-geometrodynamics_EQ0438 (6.8.9) | 142 | 1.000 | E_{\alpha \beta}:=-\vartheta_{[\alpha} \wedge H_{\beta]} | $E_{\alpha \beta}:=-\vartheta_{[\alpha} \wedge H_{\beta]}$ | $E_{\alpha \beta}:=-\vartheta_{[\alpha} \wedge H_{\beta]}$ |
| mielke-geometrodynamics_EQ0439 (6.8.10) | 143 | 1.000 | \vartheta^{\alpha} \wedge E_{\alpha}=4 L_{g}+2 T^{\alpha} \wedge H_{\alpha}+2 R^{\alpha \beta} \wedge H_{\alpha \beta} . | $\vartheta^{\alpha} \wedge E_{\alpha}=4 L_{g}+2 T^{\alpha} \wedge H_{\alpha}+2 R^{\alpha \beta} \wedge H_{\alpha \beta} .$ | $\vartheta^{\alpha} \wedge E_{\alpha}=4 L_{g}+2 T^{\alpha} \wedge H_{\alpha}+2 R^{\alpha \beta} \wedge H_{\alpha \beta} .$ |
| mielke-geometrodynamics_EQ0442 (6.8.13) | 143 | 1.000 | L_{\mathrm{qPG}}=-\frac{1}{2} T^{\alpha} \wedge H_{ \alpha}-\frac{1}{2} R^{\alpha \beta} \wedge\left(H_{ \alpha \beta}-\frac{a_{0}}{2 \ell^{2}} \eta_{\alpha \beta}\right), | $L_{\mathrm{qPG}}=-\frac{1}{2} T^{\alpha} \wedge H_{\alpha}-\frac{1}{2} R^{\alpha \beta} \wedge\left(H_{\alpha \beta}-\frac{a_{0}}{2 \ell^{2}} \eta_{\alpha \beta}\right),$ | $L_{\mathrm{qPG}}=-\frac{1}{2} T^{\alpha} \wedge H_{\alpha}-\frac{1}{2} R^{\alpha \beta} \wedge\left(H_{\alpha \beta}-\frac{a_{0}}{2 \ell^{2}} \eta_{\alpha \beta}\right),$ |
| mielke-geometrodynamics_EQ0444 (6.8.15) | 143 | 1.000 | H_{\alpha \beta}=-\frac{a_{0}}{2 \ell^{2}} \eta_{\alpha \beta}-\frac{1}{\kappa} *\left(\sum_{j=1}^{6} b_{j}{ }^{(j)} R_{\alpha \beta}\right) . | $H_{\alpha \beta}=-\frac{a_{0}}{2 \ell^{2}} \eta_{\alpha \beta}-\frac{1}{\kappa} *\left(\sum_{j=1}^{6} b_{j}{ }^{(j)} R_{\alpha \beta}\right) .$ | $H_{\alpha \beta}=-\frac{a_{0}}{2 \ell^{2}} \eta_{\alpha \beta}-\frac{1}{\kappa} *\left(\sum_{j=1}^{6} b_{j}{ }^{(j)} R_{\alpha \beta}\right) .$ |

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| mielke-geometrodynamics_EQ0447 (6.9.3) | 144 | 1.000 | `\eta={ }^{*} 1=\frac{1}{4!} \eta_{\alpha \beta \gamma \delta} \vartheta^{\alpha} \wedge \vartheta^{\beta} \wedge \vartheta^{\gamma} \wedge \vartheta^{\delta},` | $\eta = {}^{*}1 = \frac{1}{4!}\eta_{\alpha\beta\gamma\delta}\vartheta^{\alpha} \wedge \vartheta^{\beta} \wedge \vartheta^{\gamma} \wedge \vartheta^{\delta},$ | $\eta = {}^{*}1 = \frac{1}{4!}\eta_{\alpha\beta\gamma\delta}\vartheta^{\alpha} \wedge \vartheta^{\beta} \wedge \vartheta^{\gamma} \wedge \vartheta^{\delta},$ |
| mielke-geometrodynamics_EQ0448 (6.9.4) | 145 | 1.000 | `p=\frac{1}{8 \pi^{2}} \int R_{\alpha}{ }^{\beta} \wedge R_{\beta}{ }^{\alpha} .` | $p = \frac{1}{8\pi^{2}} \int R_{\alpha}{}^{\beta} \wedge R_{\beta}{}^{\alpha}.$ | $p = \frac{1}{8\pi^{2}} \int R_{\alpha}{}^{\beta} \wedge R_{\beta}{}^{\alpha}.$ |
| mielke-geometrodynamics_EQ0453 (7.2.1) | 151 | 1.000 | `\[ L_{a b}^{(\star)}:=\frac{1}{2} \varepsilon_{a b c d} L^{c d}=L_{a b} . \] }` | $L_{ab}^{(\star)} := \frac{1}{2}\varepsilon_{abcd}L^{cd} = L_{ab}.$ | $L_{ab}^{(\star)} := \frac{1}{2}\varepsilon_{abcd}L^{cd} = L_{ab}.$ |
| mielke-geometrodynamics_EQ0454 (7.2.6) | 152 | 1.000 | `\Omega^{g}=\Omega_{\mathrm{C}}+\bar{\Omega}^{g}-\frac{1}{6} \vartheta \wedge \vartheta R .` | $\Omega^{g} = \Omega_{\mathrm{C}} + \bar{\Omega}^{g} - \frac{1}{6}\vartheta \wedge \vartheta R.$ | $\Omega^{g} = \Omega_{\mathrm{C}} + \bar{\Omega}^{g} - \frac{1}{6}\vartheta \wedge \vartheta R.$ |
| mielke-geometrodynamics_EQ0455 (7.2.7) | 152 | 1.000 | `\bar{\Omega}^{g}=\vartheta \wedge^{*}\left(\vartheta \wedge \Omega^{g}\right)-\frac{1}{4} \vartheta \wedge \vartheta R,` | $\bar{\Omega}^{g} = \vartheta \wedge^{*} (\vartheta \wedge \Omega^{g}) - \frac{1}{4}\vartheta \wedge \vartheta R,$ | $\bar{\Omega}^{g} = \vartheta \wedge {}^{*}(\vartheta \wedge \Omega^{g}) - \frac{1}{4}\vartheta \wedge \vartheta R,$ |
| mielke-geometrodynamics_EQ0457 (7.2.9) | 152 | 1.000 | `\operatorname{Tr}\left(\vartheta \wedge \vartheta \wedge \Omega_{\mathrm{C}}\right)=\operatorname{Tr}\left(\vartheta \wedge \vartheta \wedge \bar{\Omega}^{g}\right)=0` | $\operatorname{Tr}(\vartheta \wedge \vartheta \wedge \Omega_{\mathrm{C}}) = \operatorname{Tr}(\vartheta \wedge \vartheta \wedge \bar{\Omega}^{g}) = 0$ | $\operatorname{Tr}(\vartheta \wedge \vartheta \wedge \Omega_{\mathrm{C}}) = \operatorname{Tr}(\vartheta \wedge \vartheta \wedge \bar{\Omega}^{g}) = 0$ |
| mielke-geometrodynamics_EQ0463 (7.3.2) | 153 | 1.000 | `D^{*} \Omega^{g}=0,` | $D^{*}\Omega^{g} = 0,$ | $D^{*}\Omega^{g} = 0,$ |
| mielke-geometrodynamics_EQ0464 (7.3.3) | 153 | 1.000 | `D^{*} R_{\alpha \beta}=0,` | $D^{*}R_{\alpha\beta} = 0,$ | $D^{*}R_{\alpha\beta} = 0,$ |
| mielke-geometrodynamics_EQ0468 (7.3.7) | 154 | 1.000 | `R_{\alpha \beta}=-{ }^{*} R_{\alpha \beta}^{(\star)},` | $R_{\alpha\beta} = -{}^{*}R_{\alpha\beta}^{(\star)},$ | $R_{\alpha\beta} = -{}^{*}R_{\alpha\beta}^{(\star)},$ |
| mielke-geometrodynamics_EQ0469 (7.3.8) | 154 | 1.000 | `R_{\alpha \beta}={ }^{*} R_{\alpha \beta}^{(\star)},` | $R_{\alpha\beta} = {}^{*}R_{\alpha\beta}^{(\star)},$ | $R_{\alpha\beta} = {}^{*}R_{\alpha\beta}^{(\star)},$ |
| mielke-geometrodynamics_EQ0479 (7.4.7) | 157 | 1.000 | `G_{\alpha}-\Lambda \eta_{\alpha}=0` | $G_{\alpha} - \Lambda\eta_{\alpha} = 0$ | $G_{\alpha} - \Lambda\,\eta_{\alpha} = 0$ |
| mielke-geometrodynamics_EQ0480 (7.5.1) | 157 | 1.000 | `\square^{c}:=\square-\frac{1}{6} R, \quad \square:=(1 / \sqrt{g}) \partial_{i}\left(\sqrt{g} g^{i j} \partial_{j} \right) .` | $\square^{c} := \square - \frac{1}{6}R, \quad \square := (1/\sqrt{g})\partial_{i}\left(\sqrt{g}g^{ij}\partial_{j}\right).$ | $\square^{c} := \square - \frac{1}{6}R, \quad \square := (1/\sqrt{g})\partial_{i}(\sqrt{g}g^{ij}\partial_{j}).$ |
| mielke-geometrodynamics_EQ0482 (7.5.3) | 157 | 1.000 | `\left(\square-\frac{2}{3} \Lambda\right) h_{i j}=0` | $\left(\square - \frac{2}{3}\Lambda\right) h_{ij} = 0$ | $\left(\square - \frac{2}{3}\Lambda\right) h_{ij} = 0$ |
| mielke-geometrodynamics_EQ0483 (7.5.4) | 158 | 1.000 | `\partial^{i} h_{i j}-\partial_{j} h=0` | $\partial^{i}h_{ij} - \partial_{j}h = 0$ | $\partial^{i}h_{ij} - \partial_{j}h = 0$ |
| mielke-geometrodynamics_EQ0484 (7.5.5) | 158 | 1.000 | `\Delta m=\sqrt{2 \Lambda / 3}>0` | $\Delta m = \sqrt{2\Lambda/3} > 0$ | $\Delta m = \sqrt{2\Lambda/3} > 0$ |
| mielke-geometrodynamics_EQ0488 (7.7.5) | 160 | 1.000 | `L_{\mathrm{EC}}=-\frac{1}{2 \kappa^{2}} R^{\alpha \beta} \wedge \eta_{\alpha \beta}` | $L_{\mathrm{EC}} = -\frac{1}{2\kappa^{2}}R^{\alpha\beta} \wedge \eta_{\alpha\beta}$ | $L_{\mathrm{EC}} = -\frac{1}{2\kappa^{2}}R^{\alpha\beta} \wedge \eta_{\alpha\beta}$ |
| mielke-geometrodynamics_EQ0489 (7.7.6) | 160 | 1.000 | `\widetilde{L}=-\sum_{k=0}^{K}(1 / 2 k) R^{\alpha \beta} \wedge \stackrel{(2 k)}{H}_{\alpha \beta}+L_{\theta},` | $\widetilde{L} = -\sum_{k=0}^{K}(1/2k)R^{\alpha\beta} \wedge \overset{(2k)}{H}{}_{\alpha\beta} + L_{\theta},$ | $\widetilde{L} = -\sum_{k=0}^{K}(1/2k)\,R^{\alpha\beta} \wedge \overset{(2k)}{H}{}_{\alpha\beta} + L_{\theta}\,,$ |
| mielke-geometrodynamics_EQ0491 (7.7.9) | 161 | 1.000 | `\widetilde{L} \rightarrow L=-\frac{1}{2}\left(R^{\alpha \beta} \wedge \widetilde{H}_{\alpha \beta}-\widetilde{L} \right)` | $\widetilde{L} \rightarrow L = -\frac{1}{2}\left(R^{\alpha\beta} \wedge \widetilde{H}_{\alpha\beta} - \widetilde{L}\right)$ | $\widetilde{L} \;\rightarrow\; L = -\frac{1}{2}\left(R^{\alpha\beta} \wedge \widetilde{H}_{\alpha\beta} - \widetilde{L}\right)$ |

| Identifier | Page | Conf. | LaTeX source | Rendered | Image |
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| mielke-geometrodynamics_EQ0493 (7.7.11) | 161 | ■1.000 | \widetilde{H}_{\alpha \beta \mu \nu}:=\frac{\partial^{2} \widetilde{L}}{\partial R^{\mu \nu} \partial R^{\alpha \beta}}=-\frac{\partial \widetilde{H}_{\mu \nu}}{\partial R^{\alpha \beta}} | $\widetilde{H}_{\alpha\beta\mu\nu} := \frac{\partial^2 \widetilde{L}}{\partial R^{\mu\nu} \partial R^{\alpha\beta}} = -\frac{\partial \widetilde{H}_{\mu\nu}}{\partial R^{\alpha\beta}}$ | $\widetilde{H}_{\alpha\beta\mu\nu} := \frac{\partial^2 \widetilde{L}}{\partial R^{\mu\nu} \partial R^{\alpha\beta}} = -\frac{\partial \widetilde{H}_{\mu\nu}}{\partial R^{\alpha\beta}}$ |
| mielke-geometrodynamics_EQ0494 (7.7.12) | 161 | ■1.000 | \widetilde{\eta}_{\alpha \beta}:=\frac{\theta_{ \mathrm{T}}^{*}}{2} \eta_{\alpha \beta}-\frac{\theta_{ \mathrm{T}}}{2} \vartheta_{\alpha} \wedge \vartheta_{ \beta}-\ell^{2} \widetilde{H}_{\alpha \beta}=0 | $\widetilde{\eta}_{\alpha\beta} := \frac{\theta_{\mathrm{T}}^{*}}{2} \eta_{\alpha\beta} - \frac{\theta_{\mathrm{T}}}{2} \vartheta_{\alpha} \wedge \vartheta_{\beta} - \ell^2 \widetilde{H}_{\alpha\beta} = 0$ | $\widetilde{\eta}_{\alpha\beta} := \frac{\theta_{\mathrm{T}}^{*}}{2} \eta_{\alpha\beta} - \frac{\theta_{\mathrm{T}}}{2} \vartheta_{\alpha} \wedge \vartheta_{\beta} - \ell^2 \widetilde{H}_{\alpha\beta} = 0$ |
| mielke-geometrodynamics_EQ0496 (7.7.14) | 162 | ■1.000 | \eta:=\eta_{\alpha \beta \gamma \delta} \vartheta^{ \alpha} \wedge \vartheta^{\beta} \wedge \vartheta^{ \gamma} \wedge \vartheta^{\delta} / 4! | $\eta := \eta_{\alpha\beta\gamma\delta} \vartheta^{\alpha} \wedge \vartheta^{\beta} \wedge \vartheta^{\gamma} \wedge \vartheta^{\delta} / 4!$ | $\eta := \eta_{\alpha\beta\gamma\delta} \vartheta^{\alpha} \wedge \vartheta^{\beta} \wedge \vartheta^{\gamma} \wedge \vartheta^{\delta} / 4!$ |
| mielke-geometrodynamics_EQ0499 (7.7.17) | 163 | ■1.000 | \gamma_{\alpha} \gamma_{\beta}+\gamma_{\beta} \gamma_{ \alpha}=2 o_{\alpha \beta} \mathbf{1}_{4} . | $\gamma_{\alpha} \gamma_{\beta} + \gamma_{\beta} \gamma_{\alpha} = 2 o_{\alpha\beta} \mathbf{1}_{4}.$ | $\gamma_{\alpha} \gamma_{\beta} + \gamma_{\beta} \gamma_{\alpha} = 2 o_{\alpha\beta} \mathbf{1}_{4}.$ |
| mielke-geometrodynamics_EQ0501 (7.7.19) | 163 | ■1.000 | \gamma:=\gamma^{\alpha} \vartheta_{\alpha} | $\gamma := \gamma^{\alpha} \vartheta_{\alpha}$ | $\gamma := \gamma^{\alpha} \vartheta_{\alpha}$ |
| mielke-geometrodynamics_EQ0502 (7.7.20) | 163 | ■1.000 | { }^{*} \gamma=\gamma^{\alpha} \eta_{\alpha}=\frac{i}{6} \gamma_{5} \gamma \wedge \gamma \wedge \gamma, | ${}^{*}\gamma = \gamma^{\alpha} \eta_{\alpha} = \frac{i}{6} \gamma_{5} \gamma \wedge \gamma \wedge \gamma,$ | ${}^{*}\gamma = \gamma^{\alpha} \eta_{\alpha} = \frac{i}{6} \gamma_{5} \gamma \wedge \gamma \wedge \gamma,$ |
| mielke-geometrodynamics_EQ0503 (7.7.21) | 164 | ■1.000 | \sigma:=\frac{1}{2} \sigma_{\alpha \beta} \vartheta^{ \alpha} \wedge \vartheta^{\beta}=\frac{i}{2} \gamma \wedge \gamma, \quad{ }^{*} \sigma=\frac{1}{2} \sigma_{ \alpha \beta} \eta^{\alpha \beta}=: \sigma^{(\star)}=i \gamma_{5} \sigma . | $\sigma := \frac{1}{2} \sigma_{\alpha\beta} \vartheta^{\alpha} \wedge \vartheta^{\beta} = \frac{i}{2} \gamma \wedge \gamma, \quad {}^{*}\sigma = \frac{1}{2} \sigma_{\alpha\beta} \eta^{\alpha\beta} =: \sigma^{(\star)} = i\gamma_5 \sigma.$ | $\sigma := \frac{1}{2} \sigma_{\alpha\beta} \vartheta^{\alpha} \wedge \vartheta^{\beta} = \frac{i}{2} \gamma \wedge \gamma, \quad {}^{*}\sigma = \frac{1}{2} \sigma_{\alpha\beta} \eta^{\alpha\beta} =: \sigma^{(\star)} = i\gamma_5 \sigma.$ |
| mielke-geometrodynamics_EQ0504 (7.7.22) | 164 | ■1.000 | \sigma^{(\star)}:=i \gamma_{5} \sigma, \quad \sigma^{( \star \star)}=i^{2} \gamma_{5}^{2} \sigma=-\sigma . | $\sigma^{(\star)} := i\gamma_5 \sigma, \quad \sigma^{(\star\star)} = i^2 \gamma_5^2 \sigma = -\sigma.$ | $\sigma^{(\star)} := i\gamma_5 \sigma, \quad \sigma^{(\star\star)} = i^2 \gamma_5^2 \sigma = -\sigma.$ |
| mielke-geometrodynamics_EQ0505 (7.7.23) | 164 | ■1.000 | \left[\gamma, \sigma^{(\star)}\right]=\gamma \wedge i \gamma_{5} \sigma-i \gamma_{5} \sigma \wedge \gamma=-i \gamma_{5}(\gamma \wedge \sigma+\sigma \wedge \gamma)=2 \gamma_{5} \gamma \wedge \gamma \wedge \gamma | $\left[\gamma, \sigma^{(\star)}\right] = \gamma \wedge i\gamma_5\sigma - i\gamma_5\sigma \wedge \gamma = -i\gamma_5(\gamma \wedge \sigma + \sigma \wedge \gamma) = 2\gamma_5 \gamma \wedge \gamma \wedge \gamma$ | $[\gamma, \sigma^{(\star)}] = \gamma \wedge i\gamma_5\sigma - i\gamma_5\sigma \wedge \gamma = -i\gamma_5(\gamma \wedge \sigma + \sigma \wedge \gamma) = 2\gamma_5 \gamma \wedge \gamma \wedge \gamma$ |
| mielke-geometrodynamics_EQ0508 (7.7.26) | 165 | ■1.000 | \gamma \rightarrow \gamma^{\theta}=e^{i \gamma^{5} \theta} \gamma e^{-i \gamma^{5} \theta} | $\gamma \rightarrow \gamma^{\theta} = e^{i\gamma^5\theta} \gamma e^{-i\gamma^5\theta}$ | $\gamma \rightarrow \gamma^{\theta} = e^{i\gamma^5\theta} \gamma e^{-i\gamma^5\theta}$ |
| mielke-geometrodynamics_EQ0510 (7.7.28) | 165 | ■1.000 | \gamma:=\vartheta^{\alpha} \gamma_{\alpha}, \quad \Gamma:=\frac{i}{4} \Gamma^{\alpha \beta} \sigma_{\alpha \beta}=\Gamma^{\{ \}}-K, | $\gamma := \vartheta^{\alpha} \gamma_{\alpha}, \quad \Gamma := \frac{i}{4} \Gamma^{\alpha\beta} \sigma_{\alpha\beta} = \Gamma^{\{\}} - K,$ | $\gamma := \vartheta^{\alpha} \gamma_{\alpha}, \quad \Gamma := \frac{i}{4} \Gamma^{\alpha\beta} \sigma_{\alpha\beta} = \Gamma^{\{\}} - K,$ |
| mielke-geometrodynamics_EQ0513 (7.7.31) | 166 | ■1.000 | \Omega^{(\star)}=\frac{1}{4} R_{\alpha \beta}^{(\star)} \sigma^{\alpha \beta}, \quad R_{\alpha \beta}^{(\star)}:= \frac{1}{2} \eta_{\alpha \beta \gamma \delta} R^{\gamma \delta} . | $\Omega^{(\star)} = \frac{1}{4} R_{\alpha\beta}^{(\star)} \sigma^{\alpha\beta}, \quad R_{\alpha\beta}^{(\star)} := \frac{1}{2} \eta_{\alpha\beta\gamma\delta} R^{\gamma\delta}.$ | $\Omega^{(\star)} = \frac{1}{4} R_{\alpha\beta}^{(\star)} \sigma^{\alpha\beta}, \quad R_{\alpha\beta}^{(\star)} := \frac{1}{2} \eta_{\alpha\beta\gamma\delta} R^{\gamma\delta}.$ |
| mielke-geometrodynamics_EQ0514 (7.7.32) | 166 | ■1.000 | D \sigma=\frac{i}{2}[\Theta, \gamma] | $D\sigma = \frac{i}{2}[\Theta, \gamma]$ | $D\sigma = \frac{i}{2}[\Theta, \gamma]$ |
| mielke-geometrodynamics_EQ0517 (7.7.35) | 166 | ■1.000 | d^{*} \gamma=0, \quad d^{*} \Gamma=0 | $d^{*}\gamma = 0, \quad d^{*}\Gamma = 0$ | $d^{*}\gamma = 0, \quad d^{*}\Gamma = 0$ |
| mielke-geometrodynamics_EQ0518 (7.7.36) | 166 | ■1.000 | D D \Phi=\left[\Omega^{g}, \Phi\right], | $DD\Phi = [\Omega^{g}, \Phi],$ | $DD\Phi = [\Omega^{g}, \Phi],$ |

| Identifier | Page | Conf. | LaTeX source | Rendered | Image |
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| mielke-geometrodynamics_EQ0520 (7.7.38) | 166 | 1.000 | G:=G_{\alpha} \gamma^{\alpha}:=\frac{1}{2} R^{\mu \nu} \wedge \eta_{\mu \nu \lambda} \gamma^{\lambda}=-i \gamma_{5}\left(\Omega^{g} \wedge \gamma+\gamma \wedge \Omega^{g}\right)=i\left[\gamma, \gamma_{5} \Omega^{g} \right] . | $G:=G_\alpha\gamma^\alpha:=\frac{1}{2}R^{\mu\nu}\wedge\eta_{\mu\nu\lambda}\gamma^\lambda=-i\gamma_5\left(\Omega^g\wedge\gamma+\gamma\wedge\Omega^g\right)=i\left[\gamma,\gamma_5\Omega^g\right].$ | $G:=G_\alpha\gamma^\alpha:=\frac{1}{2}R^{\mu\nu}\wedge\eta_{\mu\nu\lambda}\gamma^\lambda=-i\gamma_5(\Omega^g\wedge\gamma+\gamma\wedge\Omega^g)=i[\gamma,\gamma_5\Omega^g].$ |
| mielke-geometrodynamics_EQ0521 (7.7.39) | 167 | 1.000 | D[\gamma, \Theta] \equiv 2 i\left[\sigma, \Omega^{g} \right], \quad D\left[\gamma, \Omega^{g}\right] \equiv \left[\Theta, \Omega^{g}\right], \quad D G \equiv i\left[ \Theta, \gamma_{5} \Omega^{g}\right], | $D[\gamma,\Theta]\equiv 2i\left[\sigma,\Omega^g\right],\quad D\left[\gamma,\Omega^g\right]\equiv\left[\Theta,\Omega^g\right],\quad DG\equiv i\left[\Theta,\gamma_5\Omega^g\right],$ | $D[\gamma,\Theta]\equiv 2i[\sigma,\Omega^g],\quad D[\gamma,\Omega^g]\equiv[\Theta,\Omega^g],\quad DG\equiv i[\Theta,\gamma_5\Omega^g],$ |
| mielke-geometrodynamics_EQ0523 (7.7.42) | 167 | 1.000 | D R_{\alpha \beta}^{(\star)} \equiv 0, | $DR^{(\star)}_{\alpha\beta}\equiv 0,$ | $DR^{(\star)}_{\alpha\beta}\equiv 0,$ |
| mielke-geometrodynamics_EQ0532 (7.7.52) | 169 | 1.000 | { }^{(6)} R^{\alpha \beta}=-\frac{1}{12} R \vartheta^{ \alpha} \wedge \vartheta^{\beta} | ${}^{(6)}R^{\alpha\beta}=-\frac{1}{12}R\vartheta^\alpha\wedge\vartheta^\beta$ | ${}^{(6)}R^{\alpha\beta}=-\frac{1}{12}R\vartheta^\alpha\wedge\vartheta^\beta$ |
| mielke-geometrodynamics_EQ0541 (8.3.2) | 177 | 1.000 | s \gamma=\psi-[C, \gamma] | $s\gamma=\psi-[C,\gamma]$ | $s\gamma=\psi-[C,\gamma]$ |
| mielke-geometrodynamics_EQ0542 (8.3.3) | 177 | 1.000 | s \sigma:=\frac{i}{2} s(\gamma \wedge \gamma)= \frac{i}{2}([\psi, \gamma]-[[C, \gamma], \gamma])= \frac{i}{2}[\psi, \gamma]-[C, \sigma] . | $s\sigma:=\frac{i}{2}s(\gamma\wedge\gamma)=\frac{i}{2}([\psi,\gamma]-[[C,\gamma],\gamma])=\frac{i}{2}[\psi,\gamma]-[C,\sigma].$ | $s\sigma:=\frac{i}{2}s(\gamma\wedge\gamma)=\frac{i}{2}([\psi,\gamma]-[[C,\gamma],\gamma])=\frac{i}{2}[\psi,\gamma]-[C,\sigma].$ |
| mielke-geometrodynamics_EQ0543 (8.3.4) | 177 | 1.000 | s \bar{c}=b, \quad s b=0 . | $s\bar{c}=b,\quad sb=0.$ | $s\bar{c}=b,\quad sb=0.$ |
| mielke-geometrodynamics_EQ0546 (8.3.7) | 178 | 1.000 | d s^{2}=\frac{1}{4} \operatorname{Tr}\{\gamma \otimes \gamma\} \stackrel{*}{=} o_{\alpha \beta} D \xi^{\alpha} \otimes D \xi^{\beta} | $ds^2=\frac{1}{4}\operatorname{Tr}\{\gamma\otimes\gamma\}\stackrel{*}{=}o_{\alpha\beta}D\xi^\alpha\otimes D\xi^\beta$ | $ds^2=\frac{1}{4}\operatorname{Tr}\{\gamma\otimes\gamma\}\stackrel{*}{=}o_{\alpha\beta}D\xi^\alpha\otimes D\xi^\beta$ |
| mielke-geometrodynamics_EQ0550 (8.4.4) | 179 | 1.000 | L_{\mathrm{TG}}=d C_{\mathrm{RR}}+L_{\mathrm{FP}}=d C_{ \mathrm{RR}}+s\{\cdots\} | $L_{\mathrm{TG}}=dC_{\mathrm{RR}}+L_{\mathrm{FP}}=dC_{\mathrm{RR}}+s\{\cdots\}$ | $L_{\mathrm{TG}}=dC_{\mathrm{RR}}+L_{\mathrm{FP}}=dC_{\mathrm{RR}}+s\{\cdots\}$ |
| mielke-geometrodynamics_EQ0559 (8.5.2) | 181 | 1.000 | \sigma:=\frac{i}{2} \gamma \wedge \gamma . | $\sigma:=\frac{i}{2}\gamma\wedge\gamma.$ | $\sigma:=\frac{i}{2}\gamma\wedge\gamma.$ |
| mielke-geometrodynamics_EQ0563 (8.5.6) | 182 | 1.000 | \Omega^{g(\theta)}:=\sqrt{2}\left(\Omega^{g} \sin \theta+{ }^{*} \Omega^{g(\star)} \cos \theta\right) | $\Omega^{g(\theta)}:=\sqrt{2}\left(\Omega^g\sin\theta+{}^*\Omega^{g(\star)}\cos\theta\right)$ | $\Omega^{g(\theta)}:=\sqrt{2}\left(\Omega^g\sin\theta+{}^*\Omega^{g(\star)}\cos\theta\right)$ |
| mielke-geometrodynamics_EQ0564 (8.6.1) | 183 | 1.000 | L_{\mathrm{qPG}}=\frac{\Lambda}{\ell^{2}} \eta-\frac{a_{0}}{4 \ell^{2}} R^{\alpha \beta} \wedge \eta_{ \alpha \beta}-\frac{1}{2} T^{\alpha} \wedge H_{\alpha}-\frac{1}{2} R^{\alpha \beta} \wedge H_{\alpha \beta} . | $L_{\mathrm{qPG}}=\frac{\Lambda}{\ell^2}\eta-\frac{a_0}{4\ell^2}R^{\alpha\beta}\wedge\eta_{\alpha\beta}-\frac{1}{2}T^\alpha\wedge H_\alpha-\frac{1}{2}R^{\alpha\beta}\wedge H_{\alpha\beta}.$ | $L_{\mathrm{qPG}}=\frac{\Lambda}{\ell^2}\eta-\frac{a_0}{4\ell^2}R^{\alpha\beta}\wedge\eta_{\alpha\beta}-\frac{1}{2}T^\alpha\wedge H_\alpha-\frac{1}{2}R^{\alpha\beta}\wedge H_{\alpha\beta}.$ |
| mielke-geometrodynamics_EQ0565 (8.6.2) | 183 | 1.000 | H_{\alpha}:=-\partial L_{\mathrm{qPG}} / \partial T^{ \alpha}=\frac{1}{\ell^{2}} *\left(\sum_{M=1}^{3} a_{(M)}{ }^{(M)} T_{\alpha}\right), | $H_\alpha:=-\partial L_{\mathrm{qPG}}/\partial T^\alpha=\frac{1}{\ell^2}*\left(\sum_{M=1}^{3}a_{(M)}{}^{(M)}T_\alpha\right),$ | $H_\alpha:=-\partial L_{\mathrm{qPG}}/\partial T^\alpha=\frac{1}{\ell^2}*\left(\sum_{M=1}^{3}a_{(M)}{}^{(M)}T_\alpha\right),$ |
| mielke-geometrodynamics_EQ0569 (8.6.7) | 184 | 1.000 | \begin{aligned} D H_{\alpha}-E_{\alpha} & =\Sigma_{ \alpha}, \\ D H_{\alpha \beta}+\vartheta_{[\alpha} \wedge H_{\beta]} & =\tau_{\alpha \beta}, \end{aligned} | $\begin{aligned} DH_\alpha-E_\alpha &= \Sigma_\alpha, \\ DH_{\alpha\beta}+\vartheta_{[\alpha}\wedge H_{\beta]} &= \tau_{\alpha\beta}, \end{aligned}$ | $\begin{aligned} DH_\alpha-E_\alpha &= \Sigma_\alpha, \\ DH_{\alpha\beta}+\vartheta_{[\alpha}\wedge H_{\beta]} &= \tau_{\alpha\beta}, \end{aligned}$ |
| mielke-geometrodynamics_EQ0571 (8.6.9) | 184 | 1.000 | \frac{\theta_{\mathrm{T}}^{*}}{2 \ell^{2}} \eta_{\alpha \beta \gamma} T^{\gamma}+\frac{\theta_{\mathrm{T}}}{ \ell^{2}} \vartheta_{[\alpha} \wedge T_{\beta]}+ \vartheta_{[\alpha} \wedge H_{\beta]}(* *)=\tau_{\alpha \beta} . | $\frac{\theta_{\mathrm{T}}^*}{2\ell^2}\eta_{\alpha\beta\gamma}T^\gamma+\frac{\theta_{\mathrm{T}}}{\ell^2}\vartheta_{[\alpha}\wedge T_{\beta]}+\vartheta_{[\alpha}\wedge H_{\beta]}(**)=\tau_{\alpha\beta}.$ | $\frac{\theta_{\mathrm{T}}^*}{2\ell^2}\eta_{\alpha\beta\gamma}T^\gamma+\frac{\theta_{\mathrm{T}}}{\ell^2}\vartheta_{[\alpha}\wedge T_{\beta]}+\vartheta_{[\alpha}\wedge H_{\beta]}(**)=\tau_{\alpha\beta}.$ |

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| mielke-geometrodynamics_EQ0576 (8.6.14) | 185 | 1.000 | `\Lambda_{\mathrm{eff}}=\frac{1}{\theta_{\mathrm{T}}^{*}}\left[\Lambda-\frac{1}{4}\left(\theta_{\mathrm{T}}^{*}-a_{0}\right) R\right]=\frac{\Lambda}{\theta_{\mathrm{T}}^{*}}-\Lambda_{\theta}` | $\Lambda_{\mathrm{eff}}=\frac{1}{\theta_{\mathrm{T}}^{*}}\left[\Lambda-\frac{1}{4}\left(\theta_{\mathrm{T}}^{*}-a_{0}\right) R\right]=\frac{\Lambda}{\theta_{\mathrm{T}}^{*}}-\Lambda_{\theta}$ | $\Lambda_{\mathrm{eff}}=\frac{1}{\theta_{\mathrm{T}}^{*}}\left[\Lambda-\frac{1}{4}\left(\theta_{\mathrm{T}}^{*}-a_{0}\right) R\right]=\frac{\Lambda}{\theta_{\mathrm{T}}^{*}}-\Lambda_{\theta}$ |
| mielke-geometrodynamics_EQ0578 (8.6.16) | 186 | 1.000 | `\widetilde{L}_{\mathrm{qPG}}=L_{\mathrm{qPG}}+\lambda_{\alpha} \wedge T^{\alpha} .` | $\widetilde{L}_{\mathrm{qPG}}=L_{\mathrm{qPG}}+\lambda_{\alpha} \wedge T^{\alpha} .$ | $\widetilde{L}_{\mathrm{qPG}}=L_{\mathrm{qPG}}+\lambda_{\alpha} \wedge T^{\alpha} .$ |
| mielke-geometrodynamics_EQ0582 (8.6.20) | 188 | 1.000 | `\Lambda_{\theta}=\frac{3\left(\theta_{\mathrm{T}}^{*}-a_{0}\right)^{2}}{2 \ell^{2}\left(\theta_{\mathrm{L}}^{\star}-b_{6}\right) \theta_{\mathrm{T}}^{*}}` | $\Lambda_{\theta}=\frac{3\left(\theta_{\mathrm{T}}^{*}-a_{0}\right)^{2}}{2 \ell^{2}\left(\theta_{\mathrm{L}}^{\star}-b_{6}\right) \theta_{\mathrm{T}}^{*}}$ | $\Lambda_{\theta}=\frac{3\left(\theta_{\mathrm{T}}^{*}-a_{0}\right)^{2}}{2 \ell^{2}\left(\theta_{\mathrm{L}}^{\star}-b_{6}\right) \theta_{\mathrm{T}}^{*}}$ |
| mielke-geometrodynamics_EQ0586 (9.1.4) | 193 | 1.000 | `d s^{2}=\left(\frac{N(r \pm t)}{r}\right)^{2}\left(-d t^{2}+d r^{2}+r^{2} d \Omega^{2}\right),` | $ds^{2}=\left(\frac{N(r \pm t)}{r}\right)^{2}\left(-d t^{2}+d r^{2}+r^{2} d \Omega^{2}\right),$ | $ds^{2}=\left(\frac{N(r \pm t)}{r}\right)^{2}\left(-d t^{2}+d r^{2}+r^{2} d \Omega^{2}\right),$ |
| mielke-geometrodynamics_EQ0588 (9.1.6) | 194 | 1.000 | `u^{2}-v^{2}=e^{r * / 4 \mu}` | $u^{2}-v^{2}=e^{r * / 4 \mu}$ | $u^{2}-v^{2}=e^{r * / 4 \mu}$ |
| mielke-geometrodynamics_EQ0589 (9.1.7) | 194 | 1.000 | `(u+v) /(u-v)=e^{t / 2 \mu},` | $(u+v) /(u-v)=e^{t / 2 \mu},$ | $(u+v) /(u-v)=e^{t / 2 \mu},$ |
| mielke-geometrodynamics_EQ0590 (9.1.8) | 194 | 1.000 | `d s^{2}=16 \mu^{2} e^{\nu-r^{* / 2 \mu}}\left(-d \nu^{2}+d u^{2}\right)+r^{2} d \Omega^{2},` | $ds^{2}=16 \mu^{2} e^{\nu-r^{* / 2 \mu}}\left(-d \nu^{2}+d u^{2}\right)+r^{2} d \Omega^{2},$ | $ds^{2}=16 \mu^{2} e^{\nu-r^{* / 2 \mu}}\left(-d \nu^{2}+d u^{2}\right)+r^{2} d \Omega^{2},$ |
| mielke-geometrodynamics_EQ0591 (9.1.9) | 195 | 1.000 | `\Omega^{\{ \}}=\Omega_{\mathrm{C}}^{\{ \}}+\bar{\Omega}^{\{ \}}-\frac{1}{6} R^{\{ \}} \vartheta \wedge \vartheta,` | $\Omega^{\{ \}}=\Omega_{\mathrm{C}}^{\{ \}}+\bar{\Omega}^{\{ \}}-\frac{1}{6} R^{\{ \}} \vartheta \wedge \vartheta,$ | $\Omega^{\{ \}}=\Omega_{\mathrm{C}}^{\{ \}}+\bar{\Omega}^{\{ \}}-\frac{1}{6} R^{\{ \}} \vartheta \wedge \vartheta,$ |
| mielke-geometrodynamics_EQ0600 (9.1.18) | 197 | 1.000 | `\begin{aligned} d s_{\mathrm{Sds}}^{2} & =\left(1-\frac{2 \mu}{r}+\frac{\kappa}{4 \ell^{* 2}}\right) d \tau^{2} \\ & +\left(1-\frac{2 \mu}{r}+\frac{\kappa}{4 \ell^{* 2}} \right)^{-1} d r^{2}+r^{2} d \Omega^{2} \end{aligned}` | $\begin{aligned} d s_{\mathrm{Sds}}^{2} & =\left(1-\frac{2 \mu}{r}+\frac{\kappa}{4 \ell^{* 2}}\right) d \tau^{2} \\ & +\left(1-\frac{2 \mu}{r}+\frac{\kappa}{4 \ell^{* 2}} \right)^{-1} d r^{2}+r^{2} d \Omega^{2} \end{aligned}$ | $\begin{aligned} d s_{\mathrm{Sds}}^{2} & =\left(1-\frac{2 \mu}{r}+\frac{\kappa}{4 \ell^{* 2}}\right) d \tau^{2} \\ & +\left(1-\frac{2 \mu}{r}+\frac{\kappa}{4 \ell^{* 2}} \right)^{-1} d r^{2}+r^{2} d \Omega^{2} \end{aligned}$ |
| mielke-geometrodynamics_EQ0601 (9.1.19) | 197 | 1.000 | `\begin{aligned} & f=\frac{2 \mu}{r^{2}}\left(1-\frac{2 \mu}{r}+\frac{\kappa}{4 \ell^{* 2}}\right)^{-1 / 2} \\ & g=h=k=0 \end{aligned}` | $\begin{aligned} & f=\frac{2 \mu}{r^{2}}\left(1-\frac{2 \mu}{r}+\frac{\kappa}{4 \ell^{* 2}}\right)^{-1 / 2} \\ & g=h=k=0 \end{aligned}$ | $\begin{aligned} & f=\frac{2 \mu}{r^{2}}\left(1-\frac{2 \mu}{r}+\frac{\kappa}{4 \ell^{* 2}}\right)^{-1 / 2} \\ & g=h=k=0 \end{aligned}$ |
| mielke-geometrodynamics_EQ0603 (9.2.2) | 198 | 1.000 | `p_{1}\left(M^{4}\right)=-3 \tau` | $p_{1}\left(M^{4}\right)=-3 \tau$ | $p_{1}\left(M^{4}\right)=-3 \tau$ |
| mielke-geometrodynamics_EQ0607 (9.2.8) | 200 | 1.000 | `\begin{aligned} \chi(M \# N) & =\chi(M)+\chi(N)-\chi \left(S^{n}\right), \\ \chi(M \times N) & =\chi(M) \cdot \chi(N), \\ \chi\left(M^{2}\right) & =2(g-1), \\ \chi \left(\mathbb{C} P^{2}\right) & =3 \end{aligned}` | $\begin{aligned} \chi(M \# N) & =\chi(M)+\chi(N)-\chi \left(S^{n}\right), \\ \chi(M \times N) & =\chi(M) \cdot \chi(N), \\ \chi\left(M^{2}\right) & =2(g-1), \\ \chi \left(\mathbb{C} P^{2}\right) & =3 \end{aligned}$ | $\begin{aligned} \chi(M \# N) & =\chi(M)+\chi(N)-\chi \left(S^{n}\right), \\ \chi(M \times N) & =\chi(M) \cdot \chi(N), \\ \chi\left(M^{2}\right) & =2(g-1), \\ \chi \left(\mathbb{C} P^{2}\right) & =3 \end{aligned}$ |
| mielke-geometrodynamics_EQ0608 (9.2.10) | 201 | 1.000 | `\chi\left(M^{2 k+1}\right)=0` | $\chi\left(M^{2 k+1}\right)=0$ | $\chi\left(M^{2 k+1}\right)=0$ |
| mielke-geometrodynamics_EQ0612 (10.0.1) | 208 | 1.000 | `L_{\mathrm{EC}}=-\frac{\chi}{\ell} \vartheta^{\alpha} \wedge R_{\alpha}^{\star}` | $L_{\mathrm{EC}}=-\frac{\chi}{\ell} \vartheta^{\alpha} \wedge R_{\alpha}^{\star}$ | $L_{\mathrm{EC}}=-\frac{\chi}{\ell} \vartheta^{\alpha} \wedge R_{\alpha}^{\star}$ |
| mielke-geometrodynamics_EQ0614 (10.1.2) | 209 | 1.000 | `T^{\alpha}:=d \vartheta^{\alpha}-(-1)^{s} \eta^{\alpha \beta} \wedge \Gamma_{\beta}^{\star}` | $T^{\alpha}:=d \vartheta^{\alpha}-(-1)^{s} \eta^{\alpha \beta} \wedge \Gamma_{\beta}^{\star}$ | $T^{\alpha}:=d \vartheta^{\alpha}-(-1)^{s} \eta^{\alpha \beta} \wedge \Gamma_{\beta}^{\star}$ |

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| mielke-geometrodynamics_EQ0615 (10.1.3) | 209 | 1.000 | R_{\alpha}^{\star}=\frac{1}{2} \eta_{\alpha \beta \gamma} R^{\beta \gamma}:=d \Gamma_{\alpha}^{\star}+ \frac{(-1)^{s}}{2} \eta_{\alpha}^{\beta \gamma} \Gamma_{ \beta}^{\star} \wedge \Gamma_{\gamma}^{\star}, | $R^\star_\alpha = \frac{1}{2}\eta_{\alpha\beta\gamma}R^{\beta\gamma} := d\Gamma^\star_\alpha + \frac{(-1)^s}{2}\eta^{\beta\gamma}_\alpha\Gamma^\star_\beta \wedge \Gamma^\star_\gamma,$ | $R^\star_\alpha = \frac{1}{2}\eta_{\alpha\beta\gamma}R^{\beta\gamma} := d\Gamma^\star_\alpha + \frac{(-1)^s}{2}\eta^{\beta\gamma}_\alpha\Gamma^\star_\beta \wedge \Gamma^\star_\gamma,$ |
| mielke-geometrodynamics_EQ0616 (10.1.4) | 209 | 1.000 | D T^{\alpha} \equiv(-1)^{s} \eta^{\alpha \beta} \wedge R_{\beta}^{\star} | $DT^\alpha \equiv (-1)^s\eta^{\alpha\beta} \wedge R^\star_\beta$ | $DT^\alpha \equiv (-1)^s\eta^{\alpha\beta} \wedge R^\star_\beta$ |
| mielke-geometrodynamics_EQ0617 (10.1.5) | 209 | 1.000 | D R_{\alpha}^{\star} \equiv 0 . | $DR^\star_\alpha \equiv 0.$ | $DR^\star_\alpha \equiv 0\,.$ |
| mielke-geometrodynamics_EQ0618 (10.1.6) | 209 | 1.000 | C_{\mathrm{T}}:=\frac{1}{2 \ell^{2}} \vartheta^{\alpha} \wedge T_{\alpha}=-\frac{(-1)^{s}}{\ell^{2}} \eta^{ \alpha} \wedge K_{\alpha}^{\star}, | $C_{\mathrm{T}} := \frac{1}{2\ell^2}\vartheta^\alpha \wedge T_\alpha = -\frac{(-1)^s}{\ell^2}\eta^\alpha \wedge K^\star_\alpha,$ | $C_{\mathrm{T}} := \frac{1}{2\ell^2}\vartheta^\alpha \wedge T_\alpha = -\frac{(-1)^s}{\ell^2}\eta^\alpha \wedge K^\star_\alpha,$ |
| mielke-geometrodynamics_EQ0619 (10.1.7) | 209 | 1.000 | C_{\mathrm{L}}:=(-1)^{s} \Gamma^{\star \alpha} \wedge R_{ \alpha}^{\star}-\frac{1}{3!} \eta_{\alpha \beta \gamma} \Gamma^{\star \alpha} \wedge \Gamma^{\star \beta} \wedge \Gamma^{\star \gamma} . | $C_{\mathrm{L}} := (-1)^s\Gamma^{\star\alpha} \wedge R^\star_\alpha - \frac{1}{3!}\eta_{\alpha\beta\gamma}\Gamma^{\star\alpha} \wedge \Gamma^{\star\beta} \wedge \Gamma^{\star\gamma}.$ | $C_{\mathrm{L}} := (-1)^s\,\Gamma^{\star\alpha} \wedge R^\star_\alpha - \frac{1}{3!}\,\eta_{\alpha\beta\gamma}\,\Gamma^{\star\alpha} \wedge \Gamma^{\star\beta} \wedge \Gamma^{\star\gamma}.$ |
| mielke-geometrodynamics_EQ0621 (10.1.9) | 209 | 1.000 | \frac{\delta C_{\mathrm{L}}}{\delta \vartheta^{\alpha}}=0 \quad \text { and } \quad \frac{\delta C_{\mathrm{L}}}{ \delta \Gamma^{\star \alpha}}=(-1)^{s} 2 R_{\alpha}^{ \star}, | $\frac{\delta C_{\mathrm{L}}}{\delta\vartheta^\alpha} = 0 \quad \text{and} \quad \frac{\delta C_{\mathrm{L}}}{\delta\Gamma^{\star\alpha}} = (-1)^s 2R^\star_\alpha,$ | $\frac{\delta C_{\mathrm{L}}}{\delta\vartheta^\alpha} = 0 \quad \text{and} \quad \frac{\delta C_{\mathrm{L}}}{\delta\Gamma^{\star\alpha}} = (-1)^s\,2R^\star_\alpha,$ |
| mielke-geometrodynamics_EQ0622 (10.1.10) | 210 | 1.000 | C_{\mathrm{TL}}:=\frac{1}{\ell}\left(\Gamma^{\star \alpha} \wedge T_{\alpha}-\frac{(-1)^{s}}{2} \eta_{\alpha \beta \gamma} \Gamma^{\star \alpha} \wedge \Gamma^{\star \beta} \wedge \vartheta^{\gamma}\right) . | $C_{\mathrm{TL}} := \frac{1}{\ell}\left(\Gamma^{\star\alpha} \wedge T_\alpha - \frac{(-1)^s}{2}\eta_{\alpha\beta\gamma}\Gamma^{\star\alpha} \wedge \Gamma^{\star\beta} \wedge \vartheta^\gamma\right).$ | $C_{\mathrm{TL}} := \frac{1}{\ell}\left(\Gamma^{\star\alpha} \wedge T_\alpha - \frac{(-1)^s}{2}\,\eta_{\alpha\beta\gamma}\,\Gamma^{\star\alpha} \wedge \Gamma^{\star\beta} \wedge \vartheta^\gamma\right).$ |
| mielke-geometrodynamics_EQ0625 (10.1.13) | 210 | 1.000 | D H_{\alpha}^{\star}-S_{\alpha}=\tau_{\alpha}^{\star}, | $DH^\star_\alpha - S_\alpha = \tau^\star_\alpha,$ | $DH^\star_\alpha - S_\alpha = \tau^\star_\alpha,$ |
| mielke-geometrodynamics_EQ0626 (10.1.14) | 211 | 1.000 | H_{\alpha}:=-\frac{\partial L}{\partial T^{\alpha}}, \quad H_{\alpha}^{\star}:=-\frac{(-1)^{s}}{2} \frac{ \partial L}{\partial R^{\star \alpha}}, | $H_\alpha := -\frac{\partial L}{\partial T^\alpha}, \quad H^\star_\alpha := -\frac{(-1)^s}{2}\frac{\partial L}{\partial R^{\star\alpha}},$ | $H_\alpha := -\frac{\partial L}{\partial T^\alpha}, \quad H^\star_\alpha := -\frac{(-1)^s}{2}\frac{\partial L}{\partial R^{\star\alpha}},$ |
| mielke-geometrodynamics_EQ0628 (10.1.16) | 211 | 1.000 | S_{\alpha}:=\frac{(-1)^{s}}{2} \frac{\partial L}{\partial \Gamma^{\star \alpha}}=\frac{1}{2} \eta_{\alpha \beta} \wedge H^{\beta} . | $S_\alpha := \frac{(-1)^s}{2}\frac{\partial L}{\partial\Gamma^{\star\alpha}} = \frac{1}{2}\eta_{\alpha\beta} \wedge H^\beta.$ | $S_\alpha := \frac{(-1)^s}{2}\frac{\partial L}{\partial\Gamma^{\star\alpha}} = \frac{1}{2}\eta_{\alpha\beta} \wedge H^\beta.$ |
| mielke-geometrodynamics_EQ0629 (10.1.17) | 211 | 1.000 | \Sigma_{\alpha}:=\frac{\delta L_{\mathrm{MAT}}}{\delta \vartheta^{\alpha}}, \quad \tau_{\alpha}^{\star}:= \frac{(-1)^{s}}{2} \frac{\delta L_{\mathrm{MAT}}}{\delta \Gamma^{\star \alpha}}, | $\Sigma_\alpha := \frac{\delta L_{\mathrm{MAT}}}{\delta\vartheta^\alpha}, \quad \tau^\star_\alpha := \frac{(-1)^s}{2}\frac{\delta L_{\mathrm{MAT}}}{\delta\Gamma^{\star\alpha}},$ | $\Sigma_\alpha := \frac{\delta L_{\mathrm{MAT}}}{\delta\vartheta^\alpha}, \quad \tau^\star_\alpha := \frac{(-1)^s}{2}\frac{\delta L_{\mathrm{MAT}}}{\delta\Gamma^{\star\alpha}},$ |
| mielke-geometrodynamics_EQ0630 (10.2.1) | 211 | 1.000 | L_{\mathrm{EC}}:=-\frac{\chi}{\ell} \vartheta^{\alpha} \wedge R_{\alpha}^{\star} \equiv-\chi C_{\mathrm{TL}}- \frac{\chi}{\ell} d\left(\Gamma_{\alpha}^{\star} \wedge \vartheta^{\alpha}\right) | $L_{\mathrm{EC}} := -\frac{\chi}{\ell}\vartheta^\alpha \wedge R^\star_\alpha \equiv -\chi C_{\mathrm{TL}} - \frac{\chi}{\ell}d\left(\Gamma^\star_\alpha \wedge \vartheta^\alpha\right)$ | $L_{\mathrm{EC}} := -\frac{\chi}{\ell}\vartheta^\alpha \wedge R^\star_\alpha \equiv -\chi\,C_{\mathrm{TL}} - \frac{\chi}{\ell}\,d(\Gamma^\star_\alpha \wedge \vartheta^\alpha)$ |
| mielke-geometrodynamics_EQ0631 (10.2.2) | 211 | 1.000 | L_{\mathrm{MB}}\left(\vartheta^{\alpha}, \Gamma_{ \alpha}^{\star}\right)=\theta_{\mathrm{T}} C_{ \mathrm{T}}+\theta_{\mathrm{L}} C_{\mathrm{L}}+\theta_{ \mathrm{TL}} C_{\mathrm{TL}}, | $L_{\mathrm{MB}}\left(\vartheta^\alpha, \Gamma^\star_\alpha\right) = \theta_{\mathrm{T}}C_{\mathrm{T}} + \theta_{\mathrm{L}}C_{\mathrm{L}} + \theta_{\mathrm{TL}}C_{\mathrm{TL}},$ | $L_{\mathrm{MB}}(\vartheta^\alpha, \Gamma^\star_\alpha) = \theta_{\mathrm{T}}C_{\mathrm{T}} + \theta_{\mathrm{L}}C_{\mathrm{L}} + \theta_{\mathrm{TL}}C_{\mathrm{TL}}\,,$ |
| mielke-geometrodynamics_EQ0632 (10.2.3) | 212 | 1.000 | -\theta_{\mathrm{TL}} R_{\alpha}^{\star}-\frac{1}{\ell} \theta_{\mathrm{T}} T_{\alpha}=\ell \Sigma_{\alpha} | $-\theta_{\mathrm{TL}}R^\star_\alpha - \frac{1}{\ell}\theta_{\mathrm{T}}T_\alpha = \ell\Sigma_\alpha$ | $-\,\theta_{\mathrm{TL}}\,R^\star_\alpha - \frac{1}{\ell}\theta_{\mathrm{T}}\,T_\alpha = \ell\,\Sigma_\alpha$ |

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| mielke-geometrodynamics_EQ0634 (10.2.5) | 212 | 1.000 | T_{\alpha}-\frac{\varepsilon}{\ell} \eta_{\alpha}= \frac{2}{A} \ell\left(\theta_{\mathrm{TL}} \tau_{ \alpha}^{\star}-\theta_{\mathrm{L}} \ell \Sigma_{\alpha} \right) | $T_\alpha - \frac{\varepsilon}{\ell}\eta_\alpha = \frac{2}{A}\ell\left(\theta_{\mathrm{TL}}\tau_\alpha^\star - \theta_{\mathrm{L}}\ell\Sigma_\alpha\right)$ | $T_\alpha - \frac{\varepsilon}{\ell}\eta_\alpha = \frac{2}{A}\ell\left(\theta_{\mathrm{TL}}\tau_\alpha^\star - \theta_{\mathrm{L}}\ell\Sigma_\alpha\right)$ |
| mielke-geometrodynamics_EQ0635 (10.2.6) | 212 | 1.000 | R_{\alpha}^{\star}-\frac{\rho}{\ell^{2}} \eta_{\alpha}= \frac{2}{A}\left(\theta_{\mathrm{TL}} \ell \Sigma_{ \alpha}-\theta_{\mathrm{T}} \tau_{\alpha}^{\star}\right) | $R_\alpha^\star - \frac{\rho}{\ell^2}\eta_\alpha = \frac{2}{A}\left(\theta_{\mathrm{TL}}\ell\Sigma_\alpha - \theta_{\mathrm{T}}\tau_\alpha^\star\right)$ | $R_\alpha^\star - \frac{\rho}{\ell^2}\eta_\alpha = \frac{2}{A}\left(\theta_{\mathrm{TL}}\ell\Sigma_\alpha - \theta_{\mathrm{T}}\tau_\alpha^\star\right)$ |
| mielke-geometrodynamics_EQ0638 (10.2.9) | 213 | 1.000 | R_{\alpha}^{\star} \equiv R_{\alpha}^{\{ \} \star}-D K_{ \alpha}^{\star}+\frac{1}{2} \eta_{\alpha \beta \gamma} K^{\star \beta} \wedge K^{\star \gamma} | $R_\alpha^\star \equiv R_\alpha^{\{\}\star} - DK_\alpha^\star + \frac{1}{2}\eta_{\alpha\beta\gamma}K^{\star\beta}\wedge K^{\star\gamma}$ | $R_\alpha^\star \equiv R_\alpha^{\{\}\star} - DK_\alpha^\star + \frac{1}{2}\eta_{\alpha\beta\gamma}K^{\star\beta}\wedge K^{\star\gamma}$ |
| mielke-geometrodynamics_EQ0640 (10.2.11) | 213 | 1.000 | \Lambda_{\mathrm{eff}}=-\left[4 \rho-\left(1+2(-1)^{s} \right) \varepsilon^{2}\right] / 4 \ell^{2}=\theta_{ \mathrm{T}}^{2}\left[\left(9+2(-1)^{s}\right) \theta_{ \mathrm{TL}}^{2}+8 \theta_{\mathrm{T}} \theta_{ \mathrm{L}}\right] /(2 A \ell)^{2} | $\Lambda_{\mathrm{eff}} = -\left[4\rho - (1+2(-1)^s)\,\varepsilon^2\right]/4\ell^2 = \theta_{\mathrm{T}}^2\left[(9+2(-1)^s)\,\theta_{\mathrm{TL}}^2 + 8\theta_{\mathrm{T}}\theta_{\mathrm{L}}\right]/(2A\ell)^2$ | $\Lambda_{\mathrm{eff}} = -[4\rho - (1+2(-1)^s)\varepsilon^2]/4\ell^2 = \theta_{\mathrm{T}}^2\,[(9+2(-1)^s)\theta_{\mathrm{TL}}^2 + 8\theta_{\mathrm{T}}\theta_{\mathrm{L}}]/(2A\ell)^2$ |
| mielke-geometrodynamics_EQ0642 (10.2.13) | 213 | 1.000 | d s^{2}=-N^{2}(r) d t^{2}+N^{-2}(r) d r^{2}+r^{2}\left[d \phi+N^{\phi}(r) d t\right]^{2} | $ds^2 = -N^2(r)dt^2 + N^{-2}(r)dr^2 + r^2\left[d\phi + N^\phi(r)dt\right]^2$ | $ds^2 = -N^2(r)dt^2 + N^{-2}(r)dr^2 + r^2\,[d\phi + N^\phi(r)dt]^2$ |
| mielke-geometrodynamics_EQ0643 (10.2.14) | 213 | 1.000 | N^{2}(r)=-M-\Lambda_{\mathrm{eff}} r^{2}+\frac{J^{2}}{4 r^{2}}, \quad N^{\phi}(r)=-\frac{J}{2 r^{2}}, | $N^2(r) = -M - \Lambda_{\mathrm{eff}}r^2 + \frac{J^2}{4r^2}, \quad N^\phi(r) = -\frac{J}{2r^2},$ | $N^2(r) = -M - \Lambda_{\mathrm{eff}}\,r^2 + \frac{J^2}{4r^2}, \qquad N^\phi(r) = -\frac{J}{2r^2},$ |
| mielke-geometrodynamics_EQ0647 (10.3.4) | 214 | 1.000 | S_{\alpha}=\frac{\ell}{\varepsilon} E_{\alpha} | $S_\alpha = \frac{\ell}{\varepsilon}E_\alpha$ | $S_\alpha = \frac{\ell}{\varepsilon}E_\alpha$ |
| mielke-geometrodynamics_EQ0648 (10.3.5) | 215 | 1.000 | H_{\alpha}^{\star}=\frac{\ell}{\varepsilon} H_{\alpha} | $H_\alpha^\star = \frac{\ell}{\varepsilon}H_\alpha$ | $H_\alpha^\star = \frac{\ell}{\varepsilon}H_\alpha$ |
| mielke-geometrodynamics_EQ0649 (10.3.6) | 215 | 1.000 | T_{\alpha}=\frac{\varepsilon}{\ell} \eta_{\alpha}, \quad R_{\alpha}^{\star}=\frac{\rho}{\ell^{2}} \eta_{\alpha} | $T_\alpha = \frac{\varepsilon}{\ell}\eta_\alpha, \quad R_\alpha^\star = \frac{\rho}{\ell^2}\eta_\alpha$ | $T_\alpha = \frac{\varepsilon}{\ell}\,\eta_\alpha, \qquad R_\alpha^\star = \frac{\rho}{\ell^2}\,\eta_\alpha,$ |
| mielke-geometrodynamics_EQ0650 (10.3.7) | 215 | 1.000 | H_{\alpha}^{\star}=\delta \ell H_{\alpha}+\frac{\gamma}{ \ell} \vartheta_{\alpha} | $H_\alpha^\star = \delta\ell H_\alpha + \frac{\gamma}{\ell}\vartheta_\alpha$ | $H_\alpha^\star = \delta\ell H_\alpha + \frac{\gamma}{\ell}\vartheta_\alpha$ |
| mielke-geometrodynamics_EQ0651 (10.3.8) | 215 | 1.000 | \delta \ell D H_{\alpha}+\frac{\gamma}{\ell} T_{\alpha}- \frac{1}{2} \eta_{\alpha \beta} \wedge H^{\beta}=\tau_{ \alpha}^{\star} | $\delta\ell DH_\alpha + \frac{\gamma}{\ell}T_\alpha - \frac{1}{2}\eta_{\alpha\beta}\wedge H^\beta = \tau_\alpha^\star$ | $\delta\ell DH_\alpha + \frac{\gamma}{\ell}T_\alpha - \frac{1}{2}\eta_{\alpha\beta}\wedge H^\beta = \tau_\alpha^\star$ |
| mielke-geometrodynamics_EQ0653 (10.3.10) | 216 | 1.000 | H_{\alpha}^{\star}=\frac{\gamma}{\ell(1+\delta \varepsilon)} \vartheta_{\alpha}=-\frac{\ell}{ \varepsilon} H_{\alpha}, | $H_\alpha^\star = \frac{\gamma}{\ell(1+\delta\varepsilon)}\vartheta_\alpha = -\frac{\ell}{\varepsilon}H_\alpha,$ | $H_\alpha^\star = \frac{\gamma}{\ell(1+\delta\varepsilon)}\vartheta_\alpha = -\frac{\ell}{\varepsilon}H_\alpha,$ |
| mielke-geometrodynamics_EQ0659 (10.3.16) | 217 | 1.000 | H={ }^{*}\left(\vartheta^{\alpha} \wedge H_{\alpha} \right), | $H = {}^*\left(\vartheta^\alpha \wedge H_\alpha\right),$ | $H = {}^*(\vartheta^\alpha \wedge H_\alpha),$ |
| mielke-geometrodynamics_EQ0660 (10.3.17) | 217 | 1.000 | t={ }^{*}\left(T^{\alpha} \wedge H_{\alpha}\right), \quad \mathscr{A}:={ }^{*}\left(\vartheta^{\alpha} \wedge T_{ \alpha}\right), \quad h={ }^{*}\left(\eta^{\alpha} \wedge H_{\alpha}\right), | $t = {}^*\left(T^\alpha \wedge H_\alpha\right), \quad \mathscr{A} := {}^*\left(\vartheta^\alpha \wedge T_\alpha\right), \quad h = {}^*\left(\eta^\alpha \wedge H_\alpha\right),$ | $t = {}^*(T^\alpha \wedge H_\alpha), \qquad \mathscr{A} := {}^*(\vartheta^\alpha \wedge T_\alpha), \qquad h = {}^*(\eta^\alpha \wedge H_\alpha),$ |
| mielke-geometrodynamics_EQ0663 (10.3.20) | 217 | 1.000 | d s^{2}=(-1)^{s} d t^{2}+d \mathscr{A}^{2}+d h^{2} | $ds^2 = (-1)^s dt^2 + d\mathscr{A}^2 + dh^2$ | $ds^2 = (-1)^s dt^2 + d\mathscr{A}^2 + dh^2$ |
| mielke-geometrodynamics_EQ0665 (10.3.22) | 218 | 1.000 | D^{*} \vartheta_{\alpha}:=\frac{\ell}{\gamma}\left[D^{*} H_{\alpha}^{\star}-\delta \ell D^{*} H_{\alpha}\right] | $D^*\vartheta_\alpha := \frac{\ell}{\gamma}\left[D^*H_\alpha^\star - \delta\ell D^*H_\alpha\right]$ | $D^*\vartheta_\alpha := \frac{\ell}{\gamma}\left[D^*H_\alpha^\star - \delta\ell D^*H_\alpha\right]$ |
| mielke-geometrodynamics_EQ0668 (10.3.25) | 219 | 1.000 | D^{*} \vartheta^{\alpha} \cong 0, | $D^*\vartheta^\alpha \cong 0,$ | $D^*\vartheta^\alpha \cong 0,$ |

| Identifier | Page | Conf. | LaTeX source | Rendered | Image |
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| mielke-geometrodynamics_EQ0672 (10.3.29) | 220 | 1.000 | P_{\alpha}=\int \check{\mathscr{E}}_{\alpha}, \quad J_{\alpha}=\int \check{\mathscr{J}}_{\alpha}^{\star} . | $P_{\alpha}=\int \check{\mathscr{E}}_{\alpha}, \quad J_{\alpha}=\int \check{\mathscr{J}}_{\alpha}^{\star}.$ | $P_{\alpha}=\int \check{\mathscr{E}}_{\alpha}, \quad J_{\alpha}=\int \check{\mathscr{J}}_{\alpha}^{\star}.$ |
| mielke-geometrodynamics_EQ0675 (10.3.32) | 220 | 1.000 | \check{\mathscr{J}}_{\alpha}^{\star}=-\frac{\theta_{\mathrm{L}}}{2} d \Gamma_{\alpha}^{\star} | $\check{\mathscr{J}}_{\alpha}^{\star}=-\frac{\theta_{\mathrm{L}}}{2} d \Gamma_{\alpha}^{\star}$ | $\check{\mathscr{J}}_{\alpha}^{\star}=-\frac{\theta_{\mathrm{L}}}{2} d \Gamma_{\alpha}^{\star}$ |
| mielke-geometrodynamics_EQ0677 (10.3.34) | 220 | 1.000 | \check{\mathscr{J}}_{\alpha}^{\mathrm{MB} \star}=(-1)^{s} \frac{\chi}{2 \ell} d \vartheta_{\alpha}-\frac{\theta_{\mathrm{L}}}{2} d \Gamma_{\alpha}^{\star} | $\check{\mathscr{J}}_{\alpha}^{\mathrm{MB} \star}=(-1)^{s} \frac{\chi}{2 \ell} d \vartheta_{\alpha}-\frac{\theta_{\mathrm{L}}}{2} d \Gamma_{\alpha}^{\star}$ | $\check{\mathscr{J}}_{\alpha}^{\mathrm{MB} \star}=(-1)^{s} \frac{\chi}{2 \ell} d \vartheta_{\alpha}-\frac{\theta_{\mathrm{L}}}{2} d \Gamma_{\alpha}^{\star}$ |
| mielke-geometrodynamics_EQ0679 (10.3.36) | 221 | 1.000 | \widetilde{C}_{\mathrm{L}}=(-1)^{s} \widetilde{\Gamma}^{\star \alpha} \wedge \widetilde{R}_{\alpha}^{\star}-\frac{1}{3!} \eta_{\alpha \beta \gamma} \widetilde{\Gamma}^{\star \alpha} \wedge \widetilde{\Gamma}^{\star \beta} \wedge \widetilde{\Gamma}^{\star \gamma}, | $\widetilde{C}_{\mathrm{L}}=(-1)^{s} \widetilde{\Gamma}^{\star \alpha} \wedge \widetilde{R}_{\alpha}^{\star}-\frac{1}{3!} \eta_{\alpha \beta \gamma} \widetilde{\Gamma}^{\star \alpha} \wedge \widetilde{\Gamma}^{\star \beta} \wedge \widetilde{\Gamma}^{\star \gamma},$ | $\widetilde{C}_{\mathrm{L}}=(-1)^{s} \widetilde{\Gamma}^{\star \alpha} \wedge \widetilde{R}_{\alpha}^{\star}-\frac{1}{3!} \eta_{\alpha \beta \gamma} \widetilde{\Gamma}^{\star \alpha} \wedge \widetilde{\Gamma}^{\star \beta} \wedge \widetilde{\Gamma}^{\star \gamma},$ |
| mielke-geometrodynamics_EQ0683 (10.3.41) | 221 | 1.000 | c=12 \cdot 4 \pi \theta_{\mathrm{L}}, \quad \tilde{c}=12 \cdot 4 \pi \tilde{\theta}_{\mathrm{L}}, | $c=12 \cdot 4 \pi \theta_{\mathrm{L}}, \quad \tilde{c}=12 \cdot 4 \pi \tilde{\theta}_{\mathrm{L}},$ | $c=12 \cdot 4 \pi \theta_{\mathrm{L}}, \quad \tilde{c}=12 \cdot 4 \pi \tilde{\theta}_{\mathrm{L}},$ |
| mielke-geometrodynamics_EQ0684 (10.3.42) | 222 | 1.000 | \widetilde{L}=L+\lambda_{\alpha} \wedge T^{\alpha} . | $\widetilde{L}=L+\lambda_{\alpha} \wedge T^{\alpha}.$ | $\widetilde{L}=L+\lambda_{\alpha} \wedge T^{\alpha}.$ |
| mielke-geometrodynamics_EQ0691 (10.5.2) | 223 | 1.000 | \left[\sigma^{\alpha}, \sigma^{\beta}\right]=2 i \eta^{\alpha \beta \gamma} \sigma_{\gamma} . | $\left[\sigma^{\alpha}, \sigma^{\beta}\right]=2 i \eta^{\alpha \beta \gamma} \sigma_{\gamma}.$ | $\left[\sigma^{\alpha}, \sigma^{\beta}\right]=2 i \eta^{\alpha \beta \gamma} \sigma_{\gamma}.$ |
| mielke-geometrodynamics_EQ0692 (10.5.3) | 224 | 1.000 | \gamma_{0}=i \sigma^{2}, \quad \gamma_{1}=\sigma^{1}, \quad \gamma_{2}=\sigma^{3} . | $\gamma_{0}=i \sigma^{2}, \quad \gamma_{1}=\sigma^{1}, \quad \gamma_{2}=\sigma^{3}.$ | $\gamma_{0}=i \sigma^{2}, \quad \gamma_{1}=\sigma^{1}, \quad \gamma_{2}=\sigma^{3}.$ |
| mielke-geometrodynamics_EQ0693 (10.5.4) | 224 | 1.000 | \gamma_{\alpha} \gamma_{\beta}=g_{\alpha \beta} \mathbf{1}+\eta_{\alpha \beta \nu} \gamma^{\nu}, | $\gamma_{\alpha} \gamma_{\beta}=g_{\alpha \beta} \mathbf{1}+\eta_{\alpha \beta \nu} \gamma^{\nu},$ | $\gamma_{\alpha} \gamma_{\beta}=g_{\alpha \beta} \mathbf{1}+\eta_{\alpha \beta \nu} \gamma^{\nu},$ |
| mielke-geometrodynamics_EQ0695 (10.5.6) | 224 | 1.000 | i^{*} \gamma \wedge D \psi-m \psi \eta-\frac{i}{2} \left(D^{*} \gamma\right) \psi=0 | $i^{*} \gamma \wedge D \psi-m \psi \eta-\frac{i}{2}\left(D^{*} \gamma\right) \psi=0$ | $i^{*} \gamma \wedge D \psi-m \psi \eta-\frac{i}{2}\left(D^{*} \gamma\right) \psi=0$ |
| mielke-geometrodynamics_EQ0697 (10.5.8) | 224 | 1.000 | \hat{D}:=D-\frac{1}{2} T, | $\hat{D}:=D-\frac{1}{2} T,$ | $\hat{D}:=D-\frac{1}{2} T,$ |
| mielke-geometrodynamics_EQ0698 (10.5.9) | 224 | 1.000 | i^{*} \gamma \wedge \hat{D} \psi-m \eta \psi=0, | $i^{*} \gamma \wedge \hat{D} \psi-m \eta \psi=0,$ | $i^{*} \gamma \wedge \hat{D} \psi-m \eta \psi=0,$ |
| mielke-geometrodynamics_EQ0699 (10.5.10) | 224 | 1.000 | \hat{R}=R-\frac{1}{2} d T=\frac{i}{4} R^{\alpha \beta} \sigma_{\alpha \beta}-\frac{1}{2} d T | $\hat{R}=R-\frac{1}{2} d T=\frac{i}{4} R^{\alpha \beta} \sigma_{\alpha \beta}-\frac{1}{2} d T$ | $\hat{R}=R-\frac{1}{2} d T=\frac{i}{4} R^{\alpha \beta} \sigma_{\alpha \beta}-\frac{1}{2} d T$ |
| mielke-geometrodynamics_EQ0703 (10.6.2) | 225 | 1.000 | d^{*} F-m_{\text {photon }} F=0 | $d^{*} F-m_{\text {photon }} F=0$ | $d^{*} F-m_{\text {photon }} F=0$ |
| mielke-geometrodynamics_EQ0705 (10.7.1) | 226 | 1.000 | X:=x_{\alpha} \vartheta^{\alpha}, \quad Y:=y_{\alpha} \vartheta^{\alpha} . | $X:=x_{\alpha} \vartheta^{\alpha}, \quad Y:=y_{\alpha} \vartheta^{\alpha}.$ | $X:=x_{\alpha} \vartheta^{\alpha}, \quad Y:=y_{\alpha} \vartheta^{\alpha}.$ |
| mielke-geometrodynamics_EQ0706 (10.7.2) | 226 | 1.000 | \Sigma_{\alpha}=\varepsilon x_{\alpha} X \wedge Y, \quad \tau_{\alpha}^{\star}=\sigma y_{\alpha} X \wedge Y, | $\Sigma_{\alpha}=\varepsilon x_{\alpha} X \wedge Y, \quad \tau_{\alpha}^{\star}=\sigma y_{\alpha} X \wedge Y,$ | $\Sigma_{\alpha}=\varepsilon x_{\alpha} X \wedge Y, \quad \tau_{\alpha}^{\star}=\sigma y_{\alpha} X \wedge Y,$ |
| mielke-geometrodynamics_EQ0707 (10.7.3) | 226 | 1.000 | \vartheta^{\alpha} \wedge \Sigma_{\alpha}=0, \quad \vartheta^{\alpha} \wedge \tau_{\alpha}^{\star}=0 | $\vartheta^{\alpha} \wedge \Sigma_{\alpha}=0, \quad \vartheta^{\alpha} \wedge \tau_{\alpha}^{\star}=0$ | $\vartheta^{\alpha} \wedge \Sigma_{\alpha}=0, \quad \vartheta^{\alpha} \wedge \tau_{\alpha}^{\star}=0$ |
| mielke-geometrodynamics_EQ0708 (10.7.4) | 227 | 1.000 | R^{\alpha \beta}=\varepsilon \ell^{2} x^{[\alpha} y^{\beta]} X \wedge Y, | $R^{\alpha \beta}=\varepsilon \ell^{2} x^{[\alpha} y^{\beta]} X \wedge Y,$ | $R^{\alpha \beta}=\varepsilon \ell^{2} x^{[\alpha} y^{\beta]} X \wedge Y,$ |
| mielke-geometrodynamics_EQ0711 (10.7.7) | 228 | 1.000 | \mathscr{A}:={ }^{*}\left(\vartheta^{\alpha} \wedge T_{\alpha}\right)=-(-1)^{s} \frac{\varepsilon}{\ell^{2}} | $\mathscr{A}:={ }^{*}\left(\vartheta^{\alpha} \wedge T_{\alpha}\right)=-(-1)^{s} \frac{\varepsilon}{\ell^{2}}$ | $\mathscr{A}:={ }^{*}\left(\vartheta^{\alpha} \wedge T_{\alpha}\right)=-(-1)^{s} \frac{\varepsilon}{\ell^{2}}$ |
| mielke-geometrodynamics_EQ0713 (10.8.2) | 228 | 1.000 | \gamma=\gamma_{\alpha} \vartheta^{\alpha} . | $\gamma=\gamma_{\alpha} \vartheta^{\alpha}.$ | $\gamma=\gamma_{\alpha} \vartheta^{\alpha}.$ |

| Identifier | Page | Conf. | LaTeX source | Rendered | Image |
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| mielke-geometrodynamics_EQ0714 | 228 | 1.000 | `\bar{\Psi} \wedge \Psi=0, \quad \bar{\Psi} \wedge \gamma_{5} \gamma^{\alpha} \Psi=0, \quad \bar{\Psi} \wedge \gamma_{5} \Psi=0 .` | $\bar{\Psi} \wedge \Psi=0, \quad \bar{\Psi} \wedge \gamma_{5} \gamma^{\alpha} \Psi=0, \quad \bar{\Psi} \wedge \gamma_{5} \Psi=0 .$ | $\bar{\Psi} \wedge \Psi=0, \quad \bar{\Psi} \wedge \gamma_{5} \gamma^{\alpha} \Psi=0, \quad \bar{\Psi} \wedge \gamma_{5} \Psi=0 .$ |
| mielke-geometrodynamics_EQ0715 (10.9.1) | 229 | 1.000 | `L_{\mathrm{RS}}=\frac{i}{4}(\bar{\Psi} \wedge D \Psi-\Psi \wedge \overline{D \Psi})+\frac{i}{4} m \bar{\Psi} \wedge \gamma \wedge \Psi,` | $L_{\mathrm{RS}}=\frac{i}{4}(\bar{\Psi} \wedge D \Psi-\Psi \wedge \overline{D \Psi})+\frac{i}{4} m \bar{\Psi} \wedge \gamma \wedge \Psi,$ | $L_{\mathrm{RS}}=\frac{i}{4}(\bar{\Psi} \wedge D \Psi-\Psi \wedge \overline{D \Psi})+\frac{i}{4} m \bar{\Psi} \wedge \gamma \wedge \Psi,$ |
| mielke-geometrodynamics_EQ0719 (10.9.5) | 229 | 1.000 | `\Sigma_{\alpha}=-\frac{i}{4} m \bar{\Psi} \wedge \gamma_{ \alpha} \Psi=-(-1)^{s} 2 m \tau_{\alpha}^{\star}` | $\Sigma_{\alpha}=-\frac{i}{4} m \bar{\Psi} \wedge \gamma_{ \alpha} \Psi=-(-1)^{s} 2 m \tau_{\alpha}^{\star}$ | $\Sigma_{\alpha}=-\frac{i}{4} m \bar{\Psi} \wedge \gamma_{ \alpha} \Psi=-(-1)^{s} 2 m \tau_{\alpha}^{\star}$ |
| mielke-geometrodynamics_EQ0721 (10.10.1) | 230 | 1.000 | `L=L_{\infty}\left(\vartheta^{\alpha}, \Gamma_{\alpha}^{ \star}, \Psi\right)=L_{\mathrm{MB}}+L_{\Psi}` | $L=L_{\infty}\left(\vartheta^{\alpha}, \Gamma_{\alpha}^{ \star}, \Psi\right)=L_{\mathrm{MB}}+L_{\Psi}$ | $L=L_{\infty}\left(\vartheta^{\alpha}, \Gamma_{\alpha}^{ \star}, \Psi\right)=L_{\mathrm{MB}}+L_{\Psi}$ |
| mielke-geometrodynamics_EQ0726 (10.10.6) | 230 | 1.000 | `\frac{2}{i} \frac{\delta L}{\delta \Psi}=D \Psi+ \frac{1}{2} m \gamma \wedge \Psi \cong 0` | $\frac{2}{i} \frac{\delta L}{\delta \Psi}=D \Psi+\frac{1}{2} m \gamma \wedge \Psi \cong 0$ | $\frac{2}{i} \frac{\delta L}{\delta \Psi}=D \Psi+\frac{1}{2} m \gamma \wedge \Psi \cong 0$ |
| mielke-geometrodynamics_EQ0729 (10.10.9) | 231 | 1.000 | `\gamma \wedge \gamma=-2 \gamma^{\alpha} \eta_{\alpha}` | $\gamma \wedge \gamma=-2 \gamma^{\alpha} \eta_{\alpha}$ | $\gamma \wedge \gamma=-2 \gamma^{\alpha} \eta_{\alpha}$ |
| mielke-geometrodynamics_EQ0730 (10.10.10) | 231 | 1.000 | `i\left[\left(\frac{\theta_{\mathrm{TL}}}{\ell}-1\right) R_{\alpha}^{\star}+\left(\frac{\theta_{\mathrm{T}}}{ \ell^{2}}-\frac{m}{2}\right) T_{\alpha}+\frac{m^{2}}{2} \eta_{\alpha}\right] \wedge \gamma^{\alpha} \Psi=0,` | $i\left[\left(\frac{\theta_{\mathrm{TL}}}{\ell}-1\right) R_{\alpha}^{\star}+\left(\frac{\theta_{\mathrm{T}}}{ \ell^{2}}-\frac{m}{2}\right) T_{\alpha}+\frac{m^{2}}{2} \eta_{\alpha}\right] \wedge \gamma^{\alpha} \Psi=0,$ | $i\left[\left(\frac{\theta_{\mathrm{TL}}}{\ell}-1\right) R_{\alpha}^{\star}+\left(\frac{\theta_{\mathrm{T}}}{ \ell^{2}}-\frac{m}{2}\right) T_{\alpha}+\frac{m^{2}}{2} \eta_{\alpha}\right] \wedge \gamma^{\alpha} \Psi=0,$ |
| mielke-geometrodynamics_EQ0731 (10.10.11) | 231 | 1.000 | `\begin{aligned} i\left[\left(\theta_{\mathrm{L}}+\frac{ \theta_{\mathrm{TL}}}{\ell}-1\right) R_{\alpha}^{\star} \right. & +\left((-1)^{s} \frac{\theta_{\mathrm{TL}}}{ \ell}+\frac{\theta_{\mathrm{T}}}{\ell^{2}}-\frac{m}{2} \right) T_{\alpha}+\frac{1}{2}\left(\frac{\theta_{ \mathrm{T}}}{\ell^{2}}+m^{2}\right) \eta_{\alpha} \\ & \left.+\tau_{\alpha}^{\star}\right] \wedge \gamma^{ \alpha} \Psi \simeq 0 \end{aligned}` | $\begin{aligned} i\left[\left(\theta_{\mathrm{L}}+\frac{ \theta_{\mathrm{TL}}}{\ell}-1\right) R_{\alpha}^{\star} \right. & +\left((-1)^{s} \frac{\theta_{\mathrm{TL}}}{ \ell}+\frac{\theta_{\mathrm{T}}}{\ell^{2}}-\frac{m}{2} \right) T_{\alpha}+\frac{1}{2}\left(\frac{\theta_{ \mathrm{T}}}{\ell^{2}}+m^{2}\right) \eta_{\alpha} \\ & \left.+\tau_{\alpha}^{\star}\right] \wedge \gamma^{ \alpha} \Psi \simeq 0 \end{aligned}$ | $\begin{aligned} i\left[\left(\theta_{\mathrm{L}}+\frac{ \theta_{\mathrm{TL}}}{\ell}-1\right) R_{\alpha}^{\star} \right. & +\left((-1)^{s} \frac{\theta_{\mathrm{TL}}}{ \ell}+\frac{\theta_{\mathrm{T}}}{\ell^{2}}-\frac{m}{2} \right) T_{\alpha}+\frac{1}{2}\left(\frac{\theta_{ \mathrm{T}}}{\ell^{2}}+m^{2}\right) \eta_{\alpha} \\ & \left.+\tau_{\alpha}^{\star}\right] \wedge \gamma^{ \alpha} \Psi \simeq 0 \end{aligned}$ |
| mielke-geometrodynamics_EQ0732 (10.10.12) | 232 | 1.000 | `\theta_{\mathrm{T}} \simeq-m^{2} \ell^{2}, \theta_{ \mathrm{TL}} \simeq \frac{(-1)^{s}}{2} m(2 m+1) \ell, \theta_{\mathrm{L}} \simeq 1-\frac{\theta_{\mathrm{TL}}}{ \ell}=1-\frac{(-1)^{s}}{2} m(2 m+1)` | $\theta_{\mathrm{T}} \simeq-m^{2} \ell^{2}, \theta_{ \mathrm{TL}} \simeq \frac{(-1)^{s}}{2} m(2 m+1) \ell, \theta_{\mathrm{L}} \simeq 1-\frac{\theta_{\mathrm{TL}}}{ \ell}=1-\frac{(-1)^{s}}{2} m(2 m+1)$ | $\theta_{\mathrm{T}} \simeq-m^{2} \ell^{2}, \theta_{ \mathrm{TL}} \simeq \frac{(-1)^{s}}{2} m(2 m+1) \ell, \theta_{\mathrm{L}} \simeq 1-\frac{\theta_{\mathrm{TL}}}{ \ell}=1-\frac{(-1)^{s}}{2} m(2 m+1)$ |
| mielke-geometrodynamics_EQ0733 (10.10.13) | 232 | 1.000 | `\vartheta_{\alpha}=(-1)^{s} \ell \Gamma_{\alpha}^{\star}+ \bar{\sigma} \gamma_{\alpha} \Psi .` | $\vartheta_{\alpha}=(-1)^{s} \ell \Gamma_{\alpha}^{\star}+ \bar{\sigma} \gamma_{\alpha} \Psi .$ | $\vartheta_{\alpha}=(-1)^{s} \ell \Gamma_{\alpha}^{\star}+ \bar{\sigma} \gamma_{\alpha} \Psi .$ |
| mielke-geometrodynamics_EQ0735 (11.1.2) | 238 | 1.000 | `\gamma_{\alpha} \gamma_{\beta}+\gamma_{\beta} \gamma_{ \alpha}=2 \mathrm{o}_{\alpha \beta} \mathbb{1}` | $\gamma_{\alpha} \gamma_{\beta}+\gamma_{\beta} \gamma_{ \alpha}=2 \mathrm{o}_{\alpha \beta} \mathbb{1}$ | $\gamma_{\alpha} \gamma_{\beta}+\gamma_{\beta} \gamma_{ \alpha}=2 \mathrm{o}_{\alpha \beta} \mathbb{1}$ |
| mielke-geometrodynamics_EQ0738 (11.1.5) | 238 | 1.000 | `\mathrm{X}:=\imath x^{\alpha} \gamma_{\alpha} \longleftrightarrow x^{\alpha}=-\frac{l}{N} \operatorname{Tr}\left(\gamma^{\alpha} X\right) .` | $\mathrm{X}:=\imath x^{\alpha} \gamma_{\alpha} \longleftrightarrow x^{\alpha}=-\frac{l}{N} \operatorname{Tr}\left(\gamma^{\alpha} X\right) .$ | $\mathrm{X}:=\imath x^{\alpha} \gamma_{\alpha} \longleftrightarrow x^{\alpha}=-\frac{l}{N} \operatorname{Tr}\left(\gamma^{\alpha} X\right) .$ |
| mielke-geometrodynamics_EQ0739 (11.1.6) | 238 | 1.000 | `\operatorname{det} \mathrm{X}=-\mathrm{o}_{\alpha \beta} x^{\alpha} x^{\beta},` | $\operatorname{det} \mathrm{X}=-\mathrm{o}_{\alpha \beta} x^{\alpha} x^{\beta},$ | $\operatorname{det} \mathrm{X}=-\mathrm{o}_{\alpha \beta} x^{\alpha} x^{\beta},$ |
| mielke-geometrodynamics_EQ0741 (11.1.8) | 238 | 1.000 | `\mathrm{X}-\mathrm{X}^{\prime}=S X S^{-1}, \quad S \in \widetilde{S O}_{\circ}(s, n-s) .` | $\mathrm{X}-\mathrm{X}^{\prime}=S X S^{-1}, \quad S \in \widetilde{S O}_{\circ}(s, n-s) .$ | $\mathrm{X}-\mathrm{X}^{\prime}=S X S^{-1}, \quad S \in \widetilde{S O}_{\circ}(s, n-s) .$ |
| mielke-geometrodynamics_EQ0743 (11.1.10) | 239 | 1.000 | `\sigma^{\alpha \beta}:=\frac{i}{4}\left[\gamma^{\alpha}, \gamma^{\beta}\right], \quad \Lambda\left(\sigma^{\alpha \beta}\right)=L^{\alpha \beta},` | $\sigma^{\alpha \beta}:=\frac{i}{4}\left[\gamma^{\alpha}, \gamma^{\beta}\right], \quad \Lambda\left(\sigma^{\alpha \beta}\right)=L^{\alpha \beta},$ | $\sigma^{\alpha \beta}:=\frac{i}{4}\left[\gamma^{\alpha}, \gamma^{\beta}\right], \quad \Lambda\left(\sigma^{\alpha \beta}\right)=L^{\alpha \beta},$ |
| mielke-geometrodynamics_EQ0744 (11.1.11) | 239 | 1.000 | `L_{\circ}^{g}(M):=P\left(M, S O_{\circ}(s, n-s), \pi, \delta\right)` | $L_{\circ}^{g}(M):=P\left(M, S O_{\circ}(s, n-s), \pi, \delta\right)$ | $L_{\circ}^{g}(M):=P\left(M, S O_{\circ}(s, n-s), \pi, \delta\right)$ |

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| mielke-geometrodynamics_EQ0745 (11.1.12) | 239 | 1.000 | `\widetilde{L}(M):=P\left(M, \widetilde{S O}_{\circ}(s, n-2), \tilde{\pi}, \tilde{\delta}\right) \ni \tilde{p}` | $\widetilde{L}(M) := P\left(M, \widetilde{SO}_{\circ}(s, n-2), \tilde{\pi}, \tilde{\delta}\right) \ni \tilde{p}$ | $\widetilde{L}(M) := P(M, \widetilde{SO}_{\circ}(s, n-2), \tilde{\pi}, \tilde{\delta}) \ni \tilde{p}$ |
| mielke-geometrodynamics_EQ0746 (11.1.13) | 239 | 1.000 | `f(\tilde{p} S)=f(\tilde{p}) \Lambda(S), S \in \widetilde{S O}_{\circ}(s, n-2) .` | $f(\tilde{p}S) = f(\tilde{p})\Lambda(S), S \in \widetilde{SO}_{\circ}(s, n-2).$ | $f(\tilde{p}S) = f(\tilde{p})\Lambda(S), S \in \widetilde{SO}_{\circ}(s, n-2).$ |
| mielke-geometrodynamics_EQ0748 (11.1.15) | 240 | 1.000 | `\tilde{L}\left(M^{4}\right)=M^{4} \times S L(2, \mathbb{C})` | $\tilde{L}\left(M^4\right) = M^4 \times SL(2, \mathbb{C})$ | $\tilde{L}(M^4) = M^4 \times SL(2, \mathbb{C})$ |
| mielke-geometrodynamics_EQ0749 (11.1.16) | 241 | 1.000 | `V^{\bar{s}}:=V\left(M, \mathbb{C}^{N}, \rho^{\bar{s}} \left(\widetilde{S O}_{\circ}(s, n-s)\right) \subset G L(N, \mathbb{C}), \tilde{L}(M)\right)` | $V^{\bar{s}} := V\left(M, \mathbb{C}^N, \rho^{\bar{s}}\left(\widetilde{SO}_{\circ}(s, n-s)\right) \subset GL(N, \mathbb{C}), \tilde{L}(M)\right)$ | $V^{\bar{s}} := V(M, \mathbb{C}^N, \rho^{\bar{s}}(\widetilde{SO}_{\circ}(s, n-s)) \subset GL(N, \mathbb{C}), \tilde{L}(M))$ |
| mielke-geometrodynamics_EQ0751 (11.1.18) | 241 | 1.000 | `D^{\frac{1}{2}}:=D^{\left(-\frac{1}{2}, \frac{3}{2} \right)} \oplus D^{\left(\frac{1}{2}, \frac{3}{2}\right)} \left(\widetilde{S O}_{\circ}(1,3)\right)` | $D^{\frac{1}{2}} := D^{\left(-\frac{1}{2}, \frac{3}{2}\right)} \oplus D^{\left(\frac{1}{2}, \frac{3}{2}\right)} \left(\widetilde{SO}_{\circ}(1,3)\right)$ | $D^{\frac{1}{2}} := D^{(-\frac{1}{2}, \frac{3}{2})} \oplus D^{(\frac{1}{2}, \frac{3}{2})} \left(\widetilde{SO}_{\circ}(1,3)\right)$ |
| mielke-geometrodynamics_EQ0754 (11.1.21) | 241 | 1.000 | `\psi \rightarrow^{S^{-1}} \psi:=S^{-1} \psi` | $\psi \rightarrow^{S^{-1}} \psi := S^{-1}\psi$ | $\psi \rightarrow^{S^{-1}} \psi := S^{-1}\psi$ |
| mielke-geometrodynamics_EQ0755 (11.1.22) | 242 | 1.000 | `\begin{gathered} S(p) \in \mathscr{G}_{S} \approx C^{\infty}\left(\tilde{L}(M) \times_{\mathrm{Ad}} \widetilde{S O}_{\circ}(s, n-s)\right) \\ \Lambda \left(S_{(p)}\right)=G(p) \in \mathscr{G}_{p} \end{gathered}` | $S(p) \in \mathscr{G}_S \approx C^\infty\left(\tilde{L}(M) \times_{\mathrm{Ad}} \widetilde{SO}_{\circ}(s, n-s)\right)$ <br> $\Lambda\left(S_{(p)}\right) = G(p) \in \mathscr{G}_p$ | $S(p) \in \mathscr{G}_S \approx C^\infty(\tilde{L}(M) \times_{\mathrm{Ad}} \widetilde{SO}_{\circ}(s, n-s))$ <br> $\Lambda(S_{(p)}) = G(p) \in \mathscr{G}_p$ |
| mielke-geometrodynamics_EQ0757 (11.1.24) | 242 | 1.000 | `S^{-1}(p) \gamma_{\alpha} S(p)=\gamma_{\beta} G_{\alpha}{ }^{\beta}(p), \quad\left[G_{\alpha}{ }^{\beta}(p)\right] \in \mathscr{G}_{p} .` | $S^{-1}(p)\gamma_\alpha S(p) = \gamma_\beta G_\alpha{}^\beta(p), \quad \left[G_\alpha{}^\beta(p)\right] \in \mathscr{G}_p.$ | $S^{-1}(p)\gamma_\alpha S(p) = \gamma_\beta G_\alpha{}^\beta(p), \quad [G_\alpha{}^\beta(p)] \in \mathscr{G}_p.$ |
| mielke-geometrodynamics_EQ0762 (11.1.29) | 243 | 1.000 | `\bar{\psi}:=\psi^{+} \gamma^{0},` | $\bar{\psi} := \psi^+\gamma^0,$ | $\overline{\psi} := \psi^+\gamma^0,$ |
| mielke-geometrodynamics_EQ0763 (11.1.30) | 243 | 1.000 | `\bar{\sigma}^{\alpha \beta}:=\gamma^{0} \sigma^{\alpha \beta+} \gamma^{0}=\sigma^{\alpha \beta}, \quad \bar{ \gamma}^{\alpha}:=\gamma^{0} \gamma^{\alpha+} \gamma^{0}= \gamma^{\alpha} .` | $\bar{\sigma}^{\alpha\beta} := \gamma^0\sigma^{\alpha\beta+}\gamma^0 = \sigma^{\alpha\beta}, \quad \bar{\gamma}^\alpha := \gamma^0\gamma^{\alpha+}\gamma^0 = \gamma^\alpha.$ | $\overline{\sigma}^{\alpha\beta} := \gamma^0\sigma^{\alpha\beta+}\gamma^0 = \sigma^{\alpha\beta}, \quad \overline{\gamma}^\alpha := \gamma^0\gamma^{\alpha+}\gamma^0 = \gamma^\alpha.$ |
| mielke-geometrodynamics_EQ0764 (11.1.31) | 243 | 1.000 | `D \psi=d \psi+i \widetilde{\omega} \psi,` | $D\psi = d\psi + i\widetilde{\omega}\psi,$ | $D\psi = d\psi + i\widetilde{\omega}\psi,$ |
| mielke-geometrodynamics_EQ0765 (11.1.32) | 243 | 1.000 | `\Lambda(i \widetilde{\omega})=\omega^{\mathrm{g}}` | $\Lambda(i\widetilde{\omega}) = \omega^{\mathrm{g}}$ | $\Lambda(i\widetilde{\omega}) = \omega^{\mathrm{g}}$ |
| mielke-geometrodynamics_EQ0771 (11.1.38) | 244 | 1.000 | `\gamma \longrightarrow{ }^{S^{-1}} \gamma=S^{-1} \gamma S` | $\gamma \longrightarrow^{S^{-1}} \gamma = S^{-1}\gamma S$ | $\gamma \longrightarrow^{S^{-1}} \gamma = S^{-1}\gamma S$ |
| mielke-geometrodynamics_EQ0775 (11.2.4) | 246 | 1.000 | `\overline{\widetilde{\omega}}=\gamma^{0} \widetilde{ \omega}^{+} \gamma^{0}=\widetilde{\omega}` | $\overline{\widetilde{\omega}} = \gamma^0\widetilde{\omega}^+\gamma^0 = \widetilde{\omega}$ | $\overline{\widetilde{\omega}} = \gamma^0\widetilde{\omega}^+\gamma^0 = \widetilde{\omega}$ |
| mielke-geometrodynamics_EQ0777 (11.2.6) | 246 | 1.000 | `\tau_{s}=i\left(\bar{\psi}^{*} \gamma \psi\right) .` | $\tau_s = i\left(\bar{\psi}^*\gamma\psi\right).$ | $\tau_s = i(\overline{\psi}^*\gamma\psi).$ |
| mielke-geometrodynamics_EQ0779 (11.2.7) | 247 | 1.000 | `d \tau_{s}=0` | $d\tau_s = 0$ | $d\tau_s = 0$ |
| mielke-geometrodynamics_EQ0781 (11.2.9) | 247 | 1.000 | `(\psi, \chi)=i \int_{H^{n-1}} \psi^{+} \chi d^{n-1} x` | $(\psi, \chi) = i\int_{H^{n-1}} \psi^+\chi d^{n-1}x$ | $(\psi, \chi) = i\int_{H^{n-1}} \psi^+\chi d^{n-1}x.$ |
| mielke-geometrodynamics_EQ0782 (11.3.1) | 247 | 1.000 | `\widetilde{\omega}=\widetilde{\omega}^{\{ \}}- \widetilde{K}, \quad \Lambda(i \widetilde{K})=K` | $\widetilde{\omega} = \widetilde{\omega}^{\{\}} - \widetilde{K}, \quad \Lambda(i\widetilde{K}) = K$ | $\widetilde{\omega} = \widetilde{\omega}^{\{\}} - \widetilde{K}, \quad \Lambda(i\widetilde{K}) = K$ |
| mielke-geometrodynamics_EQ0785 (11.3.4) | 248 | 1.000 | `[\Theta, \vartheta]=\ell^{* 2} \tau_{s} .` | $[\Theta, \vartheta] = \ell^{*2}\tau_s.$ | $[\Theta, \vartheta] = \ell^{*2}\tau_s.$ |

| Identifier | Page | Conf. | LaTeX source | Rendered | Image |
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| mielke-geometrodynamics_EQ0790 (11.4.2) | 252 | 1.000 | `\begin{aligned} \left(\bar{\psi} i \gamma^{5} \gamma_{ \mu} \psi\right)\left(\bar{\psi} i \gamma^{5} \gamma^{ \mu} \psi\right) & =\left(\bar{\psi} \gamma_{\mu} \psi \right)\left(\bar{\psi} \gamma^{\mu} \psi\right) \\ & =( \bar{\psi} \psi)^{2}-\left(\bar{\psi} \gamma^{5} \psi \right)^{2} . \end{aligned}` | $\begin{aligned} \left(\bar{\psi} i \gamma^{5} \gamma_{\mu} \psi\right)\left(\bar{\psi} i \gamma^{5} \gamma^{\mu} \psi\right) & =\left(\bar{\psi} \gamma_{\mu} \psi\right)\left(\bar{\psi} \gamma^{\mu} \psi\right) \\ & =(\bar{\psi} \psi)^{2}-\left(\bar{\psi} \gamma^{5} \psi\right)^{2} . \end{aligned}$ | $\begin{aligned} \left(\bar{\psi} i \gamma^{5} \gamma_{\mu} \psi\right)\left(\bar{\psi} i \gamma^{5} \gamma^{\mu} \psi\right) & =\left(\bar{\psi} \gamma_{\mu} \psi\right)\left(\bar{\psi} \gamma^{\mu} \psi\right) \\ & =(\bar{\psi} \psi)^{2}-\left(\bar{\psi} \gamma^{5} \psi\right)^{2} . \end{aligned}$ |
| mielke-geometrodynamics_EQ0793 (11.4.5) | 253 | 1.000 | `\rho:=\frac{\sqrt{2 \pi}}{\ell^{*}} r,` | $\rho:=\frac{\sqrt{2 \pi}}{\ell^{*}} r,$ | $\rho:=\frac{\sqrt{2 \pi}}{\ell^{*}} r,$ |
| mielke-geometrodynamics_EQ0794 (11.4.6) | 253 | 1.000 | `\bar{g}_{k l} \longleftarrow g_{k l}=e^{\mu} \bar{g}_{k l} .` | $\bar{g}_{k l} \longleftarrow g_{k l}=e^{\mu} \bar{g}_{k l} .$ | $\bar{g}_{k l} \longleftarrow g_{k l}=e^{\mu} \bar{g}_{k l} .$ |
| mielke-geometrodynamics_EQ0795 (11.4.7) | 253 | 1.000 | `\bar{E}_{\cdot k}^{\alpha} \longleftarrow E_{\cdot k}^{\alpha}=e^{\mu / 2} \bar{E}_{\cdot k}^{\alpha}` | $\bar{E}_{\cdot k}^{\alpha} \longleftarrow E_{\cdot k}^{\alpha}=e^{\mu / 2} \bar{E}_{\cdot k}^{\alpha}$ | $\bar{E}_{\cdot k}^{\alpha} \longleftarrow E_{\cdot k}^{\alpha}=e^{\mu / 2} \bar{E}_{\cdot k}^{\alpha}$ |
| mielke-geometrodynamics_EQ0796 (11.4.8) | 253 | 1.000 | `\left\{\begin{array}{c} \alpha \\ k l \end{array}\right \}=\overline{\left\{\begin{array}{c} \alpha \\ k l \end{array}\right\}}+\frac{1}{2}\left(\delta_{k}^{\alpha} \partial_{l}+\delta_{l}^{\alpha} \partial_{k}-g_{k l} \partial^{\alpha}\right) \mu` | $\left\{\begin{array}{c} \alpha \\ k l \end{array}\right\}=\overline{\left\{\begin{array}{c} \alpha \\ k l \end{array}\right\}}+\frac{1}{2}\left(\delta_{k}^{\alpha} \partial_{l}+\delta_{l}^{\alpha} \partial_{k}-g_{k l} \partial^{\alpha}\right) \mu$ | $\left\{\begin{array}{c} \alpha \\ k l \end{array}\right\}=\overline{\left\{\begin{array}{c} \alpha \\ k l \end{array}\right\}}+\frac{1}{2}\left(\delta_{k}^{\alpha} \partial_{l}+\delta_{l}^{\alpha} \partial_{k}-g_{k l} \partial^{\alpha}\right) \mu$ |
| mielke-geometrodynamics_EQ0797 (11.4.9) | 253 | 1.000 | `\Gamma_{k}=\bar{\Gamma}_{k}-\frac{1}{4} \delta_{k}^{[ \alpha} \partial^{\beta]} \mu \sigma_{\alpha \beta} .` | $\Gamma_{k}=\bar{\Gamma}_{k}-\frac{1}{4} \delta_{k}^{[\alpha} \partial^{\beta]} \mu \sigma_{\alpha \beta} .$ | $\Gamma_{k}=\bar{\Gamma}_{k}-\frac{1}{4} \delta_{k}^{[\alpha} \partial^{\beta]} \mu \sigma_{\alpha \beta} .$ |
| mielke-geometrodynamics_EQ0801 (11.4.13) | 254 | 1.000 | `\begin{aligned} & \bar{\Gamma}_{0}=\frac{i}{4} e^{(\nu-\mu) / 2} \partial_{r}(\nu-\mu) \gamma_{0} \gamma_{1} \\ & \bar{\Gamma}_{1}=0, \quad \bar{\Gamma}_{2}=\frac{i}{2} \gamma_{2} \gamma_{1} \\ & \bar{\Gamma}_{3}=\frac{i}{2} \left(\sin \vartheta \gamma_{3} \gamma_{1}+\cos \vartheta \gamma_{3} \gamma_{2}\right) \end{aligned}` | $\begin{aligned} & \bar{\Gamma}_{0}=\frac{i}{4} e^{(\nu-\mu) / 2} \partial_{r}(\nu-\mu) \gamma_{0} \gamma_{1} \\ & \bar{\Gamma}_{1}=0, \quad \bar{\Gamma}_{2}=\frac{i}{2} \gamma_{2} \gamma_{1} \\ & \bar{\Gamma}_{3}=\frac{i}{2} \left(\sin \vartheta \gamma_{3} \gamma_{1}+\cos \vartheta \gamma_{3} \gamma_{2}\right) \end{aligned}$ | $\begin{aligned} & \bar{\Gamma}_{0}=\frac{i}{4} e^{(\nu-\mu) / 2} \partial_{r}(\nu-\mu) \gamma_{0} \gamma_{1} \\ & \bar{\Gamma}_{1}=0, \quad \bar{\Gamma}_{2}=\frac{i}{2} \gamma_{2} \gamma_{1} \\ & \bar{\Gamma}_{3}=\frac{i}{2} \left(\sin \vartheta \gamma_{3} \gamma_{1}+\cos \vartheta \gamma_{3} \gamma_{2}\right) \end{aligned}$ |
| mielke-geometrodynamics_EQ0804 (11.4.16) | 255 | 1.000 | `\chi_{\kappa}^{m}=\sum_{\bar{m}= \pm 1 / 2} C\left(l \frac{1}{2} j ; m-\bar{m}, \bar{m}\right) Y_{l}^{m-\bar{m}}(\vartheta, \phi) \chi^{\bar{m}} .` | $\chi_{\kappa}^{m}=\sum_{\bar{m}= \pm 1 / 2} C\left(l \frac{1}{2} j ; m-\bar{m}, \bar{m}\right) Y_{l}^{m-\bar{m}}(\vartheta, \phi) \chi^{\bar{m}} .$ | $\chi_{\kappa}^{m}=\sum_{\bar{m}= \pm 1 / 2} C\left(l \frac{1}{2} j ; m-\bar{m}, \bar{m}\right) Y_{l}^{m-\bar{m}}(\vartheta, \phi) \chi^{\bar{m}} .$ |
| mielke-geometrodynamics_EQ0808 (11.4.20) | 255 | 1.000 | `\frac{\vec{\sigma} \cdot \vec{x}}{|\vec{x}|} \chi_{ \kappa}^{m}=-\chi_{-\kappa}^{m}` | $\frac{\vec{\sigma} \cdot \vec{x}}{\vec{x}} \chi_{\kappa}^{m}=-\chi_{-\kappa}^{m}$ | $\frac{\vec{\sigma} \cdot \vec{x}}{\vec{x}} \chi_{\kappa}^{m}=-\chi_{-\kappa}^{m}$ |
| mielke-geometrodynamics_EQ0814 (11.4.27) | 257 | 1.000 | `\beta=\frac{M^{*}}{2 m}, \quad M^{*}:=\frac{\sqrt{8 \pi} \hbar}{c \ell^{*}} .` | $\beta=\frac{M^{*}}{2 m}, \quad M^{*}:=\frac{\sqrt{8 \pi} \hbar}{c \ell^{*}} .$ | $\beta=\frac{M^{*}}{2 m}, \quad M^{*}:=\frac{\sqrt{8 \pi} \hbar}{c \ell^{*}} .$ |
| mielke-geometrodynamics_EQ0816 (11.4.30) | 257 | 1.000 | `F^{\prime \prime}+\frac{2}{\rho} F^{\prime}-\frac{2}{ \rho^{2}} F \simeq \frac{1-\omega^{2}}{\beta^{2}} F` | $F^{\prime \prime}+\frac{2}{\rho} F^{\prime}-\frac{2}{\rho^{2}} F \simeq \frac{1-\omega^{2}}{\beta^{2}} F$ | $F^{\prime \prime}+\frac{2}{\rho} F^{\prime}-\frac{2}{\rho^{2}} F \simeq \frac{1-\omega^{2}}{\beta^{2}} F$ |
| mielke-geometrodynamics_EQ0817 (11.4.31) | 257 | 1.000 | `F \sim C_{\infty}\left(\frac{1}{\bar{\rho}}+\frac{1}{ \bar{\rho}^{2}}\right) e^{-\bar{\rho}}` | $F \sim C_{\infty}\left(\frac{1}{\bar{\rho}}+\frac{1}{\bar{\rho}^{2}}\right) e^{-\bar{\rho}}$ | $F \sim C_{\infty}\left(\frac{1}{\bar{\rho}}+\frac{1}{\bar{\rho}^{2}}\right) e^{-\bar{\rho}}$ |
| mielke-geometrodynamics_EQ0818 (11.4.32) | 257 | 1.000 | `H \sim C_{\infty} \sqrt{\frac{1+\omega}{1-\omega}} \frac{1}{\bar{\rho}} e^{-\bar{\rho}}` | $H \sim C_{\infty} \sqrt{\frac{1+\omega}{1-\omega}} \frac{1}{\bar{\rho}} e^{-\bar{\rho}}$ | $H \sim C_{\infty} \sqrt{\frac{1+\omega}{1-\omega}} \frac{1}{\bar{\rho}} e^{-\bar{\rho}}$ |

| Identifier | Page | Conf. | LaTeX source | Rendered | Image |
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| mielke-geometrodynamics_EQ0819 (11.4.33) | 257 | 1.000 | `\bar{\rho}:=\frac{1}{\beta} \sqrt{1-\omega^{2}} \rho` | $\bar{\rho} := \frac{1}{\beta}\sqrt{1-\omega^{2}}\rho$ | $\bar{\rho} := \frac{1}{\beta}\sqrt{1-\omega^{2}}\rho$ |
| mielke-geometrodynamics_EQ0821 (11.4.35) | 258 | 1.000 | `F(\rho) \simeq C_{0} f^{1}(\bar{\rho}) \frac{1}{\cosh \bar{\rho}}` | $F(\rho) \simeq C_{0} f^{1}(\bar{\rho}) \frac{1}{\cosh \bar{\rho}}$ | $F(\rho) \simeq C_{0} f^{1}(\bar{\rho}) \frac{1}{\cosh \bar{\rho}}$ |
| mielke-geometrodynamics_EQ0822 (11.4.36) | 258 | 1.000 | `H(\rho) \simeq C_{0} \sqrt{\frac{1+\omega}{1-\omega}} f^{0}(\bar{\rho}) \frac{1}{\cosh \bar{\rho}}` | $H(\rho) \simeq C_{0} \sqrt{\frac{1+\omega}{1-\omega}} f^{0}(\bar{\rho}) \frac{1}{\cosh \bar{\rho}}$ | $H(\rho) \simeq C_{0} \sqrt{\frac{1+\omega}{1-\omega}} f^{0}(\bar{\rho}) \frac{1}{\cosh \bar{\rho}}$ |
| mielke-geometrodynamics_EQ0823 (11.4.37) | 258 | 1.000 | `C_{0}=(1-\omega) \sqrt{\frac{-2}{\varepsilon(\omega+1)}}` | $C_{0}=(1-\omega) \sqrt{\frac{-2}{\varepsilon(\omega+1)}}$ | $C_{0}=(1-\omega) \sqrt{\frac{-2}{\varepsilon(\omega+1)}}$ |
| mielke-geometrodynamics_EQ0826 (11.4.40) | 259 | 1.000 | `m_{s}=\frac{1}{c} \int_{H^{3}} \Sigma_{\mathrm{D}}^{0}` | $m_{s}=\frac{1}{c} \int_{H^{3}} \Sigma_{\mathrm{D}}^{0}$ | $m_{s}=\frac{1}{c} \int_{H^{3}} \Sigma_{\mathrm{D}}^{0}$ |
| mielke-geometrodynamics_EQ0827 (11.5.1) | 262 | 1.000 | `Q:=i e \int_{H^{3}} \bar{\psi}^{*} \gamma \psi=k e, \quad k=0,1,2, \ldots` | $Q:=i e \int_{H^{3}} \bar{\psi}^{*} \gamma \psi=k e, \quad k=0,1,2, \ldots$ | $Q:=i e \int_{H^{3}} \bar{\psi}^{*} \gamma \psi=k e, \quad k=0,1,2, \ldots$ |
| mielke-geometrodynamics_EQ0828 (11.5.2) | 263 | 1.000 | `i \gamma \wedge^{*} d \psi(x)+e^{2} \int_{y \in M} \bar{\psi}(y) \gamma \psi(y) D_{\mathrm{F}}(y-x) \wedge^{*} \gamma \psi(x)=m \psi(x) \eta` | $i \gamma \wedge^{*} d \psi(x)+e^{2} \int_{y \in M} \bar{\psi}(y) \gamma \psi(y) D_{\mathrm{F}}(y-x) \wedge^{*} \gamma \psi(x)=m \psi(x) \eta$ | $i \gamma \wedge^{*} d \psi(x)+e^{2} \int_{y \in M} \bar{\psi}(y) \gamma \psi(y) D_{\mathrm{F}}(y-x) \wedge^{*} \gamma \psi(x)=m \psi(x) \eta$ |
| mielke-geometrodynamics_EQ0830 (12.1.2) | 269 | 1.000 | `\left\langle d j_{5}(x)\right\rangle=2 i m\langle P \rangle-\left(1 / 96 \pi^{2}\right) F \wedge F` | $\left\langle d j_{5}(x)\right\rangle=2 i m\langle P \rangle-\left(1 / 96 \pi^{2}\right) F \wedge F$ | $\left\langle d j_{5}(x)\right\rangle=2 i m\langle P \rangle-\left(1 / 96 \pi^{2}\right) F \wedge F$ |
| mielke-geometrodynamics_EQ0838 (12.2.6) | 271 | 1.000 | `d j_{5}=2 i m P=2 i m \bar{\psi} \gamma_{5} \psi \eta` | $d j_{5}=2 i m P=2 i m \bar{\psi} \gamma_{5} \psi \eta$ | $d j_{5}=2 i m P=2 i m \bar{\psi} \gamma_{5} \psi \eta$ |
| mielke-geometrodynamics_EQ0843 (12.2.11) | 272 | 1.000 | `L_{a \psi \psi}=\frac{1}{2} d \theta \wedge j_{5}= \frac{1}{2 f_{a}} d a \wedge \bar{\psi}^{*} \gamma \gamma_{5} \psi,` | $L_{a \psi \psi}=\frac{1}{2} d \theta \wedge j_{5}= \frac{1}{2 f_{a}} d a \wedge \bar{\psi}^{*} \gamma \gamma_{5} \psi,$ | $L_{a \psi \psi}=\frac{1}{2} d \theta \wedge j_{5}= \frac{1}{2 f_{a}} d a \wedge \bar{\psi}^{*} \gamma \gamma_{5} \psi,$ |
| mielke-geometrodynamics_EQ0846 (12.2.14) | 273 | 1.000 | `d j_{5} \cong 4 d C_{\mathrm{TT}}=\frac{2}{\ell^{2}} \left(T^{\alpha} \wedge T_{\alpha}+R_{\alpha \beta} \wedge \vartheta^{\alpha} \wedge \vartheta^{\beta}\right)` | $d j_{5} \cong 4 d C_{\mathrm{TT}}=\frac{2}{\ell^{2}} \left(T^{\alpha} \wedge T_{\alpha}+R_{\alpha \beta} \wedge \vartheta^{\alpha} \wedge \vartheta^{\beta}\right)$ | $d j_{5} \cong 4 d C_{\mathrm{TT}}=\frac{2}{\ell^{2}} \left(T^{\alpha} \wedge T_{\alpha}+R_{\alpha \beta} \wedge \vartheta^{\alpha} \wedge \vartheta^{\beta}\right)$ |
| mielke-geometrodynamics_EQ0849 (12.3.2) | 275 | 1.000 | `K\left(t, x, \not D^{2}\right)=(4 \pi)^{-n / 2} \sum_{k=0}^{\infty} t^{(k-n) / 2} K_{k}\left(x, \not D^{2}\right)` | $K\left(t, x, \not D^{2}\right)=(4 \pi)^{-n / 2} \sum_{k=0}^{\infty} t^{(k-n) / 2} K_{k}\left(x, \not D^{2}\right)$ | $K\left(t, x, \not D^{2}\right)=(4 \pi)^{-n / 2} \sum_{k=0}^{\infty} t^{(k-n) / 2} K_{k}\left(x, \not D^{2}\right)$ |
| mielke-geometrodynamics_EQ0852 (12.3.5) | 276 | 1.000 | `-K_{2} / t=\left(2 \ell^{2} / t\right) d C_{\mathrm{TT}} \cong\left(\ell^{2} / 2 t\right) d j_{5}=\left(i m \ell^{2} / t\right) \bar{\psi} \gamma_{5} \psi \sim \ell^{2} M^{2} m^{4} \rightarrow 0 .` | $-K_{2} / t=\left(2 \ell^{2} / t\right) d C_{\mathrm{TT}} \cong\left(\ell^{2} / 2 t\right) d j_{5}=\left(i m \ell^{2} / t\right) \bar{\psi} \gamma_{5} \psi \sim \ell^{2} M^{2} m^{4} \rightarrow 0 .$ | $-K_{2} / t=\left(2 \ell^{2} / t\right) d C_{\mathrm{TT}} \cong\left(\ell^{2} / 2 t\right) d j_{5}=\left(i m \ell^{2} / t\right) \bar{\psi} \gamma_{5} \psi \sim \ell^{2} M^{2} m^{4} \rightarrow 0 .$ |
| mielke-geometrodynamics_EQ0856 (12.4.3) | 277 | 1.000 | `\mathscr{G}^{A} \cong 0, \quad A=1,2,3` | $\mathscr{G}^{A} \cong 0, \quad A=1,2,3$ | $\mathscr{G}^{A} \cong 0, \quad A=1,2,3$ |
| mielke-geometrodynamics_EQ0858 (12.4.5) | 278 | 1.000 | `\gamma:=\gamma_{\alpha} \vartheta^{\alpha}, \quad{ }^{*} \gamma=\gamma^{\alpha} \eta_{\alpha} .` | $\gamma:=\gamma_{\alpha} \vartheta^{\alpha}, \quad{ }^{*} \gamma=\gamma^{\alpha} \eta_{\alpha} .$ | $\gamma:=\gamma_{\alpha} \vartheta^{\alpha}, \quad{ }^{*} \gamma=\gamma^{\alpha} \eta_{\alpha} .$ |
| mielke-geometrodynamics_EQ0859 (12.4.6) | 278 | 1.000 | `\Theta:=D \gamma=T^{\alpha} \gamma_{\alpha}, \quad \Omega:=d \Gamma+\Gamma \wedge \Gamma=\frac{i}{4} R^{ \alpha \beta} \sigma_{\alpha \beta}` | $\Theta:=D \gamma=T^{\alpha} \gamma_{\alpha}, \quad \Omega:=d \Gamma+\Gamma \wedge \Gamma=\frac{i}{4} R^{\alpha \beta} \sigma_{\alpha \beta}$ | $\Theta:=D \gamma=T^{\alpha} \gamma_{\alpha}, \quad \Omega:=d \Gamma+\Gamma \wedge \Gamma=\frac{i}{4} R^{\alpha \beta} \sigma_{\alpha \beta}$ |

| Identifier | Page | Conf. | LaTeX source | Rendered | Image |
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| mielke-geometrodynamics_EQ0860 (12.4.7) | 278 | 1.000 | `C_{\mathrm{RR}}:=-\operatorname{Tr}\left(\Gamma \wedge \Omega-\frac{1}{3} \Gamma \wedge \Gamma \wedge \Gamma \right) .` | $C_{\mathrm{RR}}:=-\operatorname{Tr}\left(\Gamma \wedge \Omega-\frac{1}{3} \Gamma \wedge \Gamma \wedge \Gamma \right) .$ | $C_{\mathrm{RR}}:=-\operatorname{Tr}\left(\Gamma \wedge \Omega-\frac{1}{3} \Gamma \wedge \Gamma \wedge \Gamma \right) .$ |
| mielke-geometrodynamics_EQ0862 (12.4.9) | 279 | 1.000 | `C_{\mathrm{TT}}:=\frac{1}{8 \ell^{2}} \operatorname{Tr}( \gamma \wedge \Theta)=\frac{1}{2 \ell^{2}} \vartheta^{ \alpha} \wedge T_{\alpha} .` | $C_{\mathrm{TT}}:=\frac{1}{8 \ell^{2}} \operatorname{Tr}(\gamma \wedge \Theta)=\frac{1}{2 \ell^{2}} \vartheta^{\alpha} \wedge T_{\alpha} .$ | $C_{\mathrm{TT}}:=\frac{1}{8 \ell^{2}} \operatorname{Tr}(\gamma \wedge \Theta)=\frac{1}{2 \ell^{2}} \vartheta^{\alpha} \wedge T_{\alpha} .$ |
| mielke-geometrodynamics_EQ0863 (12.4.10) | 279 | 1.000 | `d C_{\mathrm{TT}}=\frac{1}{8 \ell^{2}} \operatorname{Tr}( \Theta \wedge \Theta-4 i \Omega \wedge \sigma)=\frac{1}{2 \ell^{2}}\left(T^{\alpha} \wedge T_{\alpha}+R_{\alpha \beta} \wedge \vartheta^{\alpha} \wedge \vartheta^{\beta} \right) .` | $d C_{\mathrm{TT}}=\frac{1}{8 \ell^{2}} \operatorname{Tr}(\Theta \wedge \Theta-4 i \Omega \wedge \sigma)=\frac{1}{2 \ell^{2}}\left(T^{\alpha} \wedge T_{\alpha}+R_{\alpha \beta} \wedge \vartheta^{\alpha} \wedge \vartheta^{\beta}\right) .$ | $d C_{\mathrm{TT}}=\frac{1}{8 \ell^{2}} \operatorname{Tr}(\Theta \wedge \Theta-4 i \Omega \wedge \sigma)=\frac{1}{2 \ell^{2}}\left(T^{\alpha} \wedge T_{\alpha}+R_{\alpha \beta} \wedge \vartheta^{\alpha} \wedge \vartheta^{\beta}\right) .$ |
| mielke-geometrodynamics_EQ0864 (12.4.11) | 279 | 1.000 | `\hat{C}_{\mathrm{RR}}=C_{\mathrm{RR}}-2 C_{\mathrm{TT}}` | $\hat{C}_{\mathrm{RR}}=C_{\mathrm{RR}}-2 C_{\mathrm{TT}}$ | $\hat{C}_{\mathrm{RR}}=C_{\mathrm{RR}}-2 C_{\mathrm{TT}}$ |
| mielke-geometrodynamics_EQ0865 (13.2.1) | 283 | 1.000 | `L_{\mathrm{BF}}=-B \wedge F=-B \wedge d A .` | $L_{\mathrm{BF}}=-B \wedge F=-B \wedge d A .$ | $L_{\mathrm{BF}}=-B \wedge F=-B \wedge d A .$ |
| mielke-geometrodynamics_EQ0866 (13.2.2) | 283 | 1.000 | `\tilde{L}_{\mathrm{BF}}:=-B \wedge d A+\frac{1}{2} B \wedge B \cong-B \wedge d A+d C` | $\tilde{L}_{\mathrm{BF}}:=-B \wedge d A+\frac{1}{2} B \wedge B \cong-B \wedge d A+d C$ | $\tilde{L}_{\mathrm{BF}}:=-B \wedge d A+\frac{1}{2} B \wedge B \cong-B \wedge d A+d C$ |
| mielke-geometrodynamics_EQ0868 (13.2.4) | 283 | 1.000 | `C=\frac{1}{2} A \wedge F, \quad d C=\frac{1}{2} F \wedge F,` | $C=\frac{1}{2} A \wedge F, \quad d C=\frac{1}{2} F \wedge F,$ | $C=\frac{1}{2} A \wedge F, \quad d C=\frac{1}{2} F \wedge F,$ |
| mielke-geometrodynamics_EQ0869 (13.2.5) | 283 | 1.000 | `A \rightarrow A^{\prime}=A+d \theta(x),` | $A \rightarrow A^{\prime}=A+d \theta(x),$ | $A \rightarrow A^{\prime}=A+d \theta(x),$ |
| mielke-geometrodynamics_EQ0870 (13.2.6) | 284 | 1.000 | `A \rightarrow \widetilde{A}=A+\sigma, \quad B \rightarrow \widetilde{B}=B+d \sigma,` | $A \rightarrow \widetilde{A}=A+\sigma, \quad B \rightarrow \widetilde{B}=B+d \sigma,$ | $A \rightarrow \widetilde{A}=A+\sigma, \quad B \rightarrow \widetilde{B}=B+d \sigma,$ |
| mielke-geometrodynamics_EQ0871 (13.2.7) | 284 | 1.000 | `L_{\mathrm{Max}}=-B \wedge d A+\frac{1}{2} B \wedge{ }^{*} B+L_{\mathrm{matter}},` | $L_{\mathrm{Max}}=-B \wedge d A+\frac{1}{2} B \wedge{ }^{*} B+L_{\mathrm{matter}},$ | $L_{\mathrm{Max}}=-B \wedge d A+\frac{1}{2} B \wedge{ }^{*} B+L_{\mathrm{matter}},$ |
| mielke-geometrodynamics_EQ0872 (13.2.8) | 284 | 1.000 | `-d B=d^{*} F \cong j,` | $-d B=d^{*} F \cong j,$ | $-d B=d^{*} F \cong j,$ |
| mielke-geometrodynamics_EQ0875 (13.3.3) | 284 | 1.000 | `\left[L^{\alpha}{ }_{\beta}, L^{\gamma}{ }_{\delta} \right]=\delta_{\delta}^{\alpha} L^{\gamma}{ }_{\beta}-\delta_{\beta}^{\gamma} L^{\alpha}{ }_{\delta},` | $\left[L^{\alpha}{ }_{\beta}, L^{\gamma}{ }_{\delta}\right]=\delta_{\delta}^{\alpha} L^{\gamma}{ }_{\beta}-\delta_{\beta}^{\gamma} L^{\alpha}{ }_{\delta},$ | $\left[L^{\alpha}{ }_{\beta}, L^{\gamma}{ }_{\delta}\right]=\delta_{\delta}^{\alpha} L^{\gamma}{ }_{\beta}-\delta_{\beta}^{\gamma} L^{\alpha}{ }_{\delta},$ |
| mielke-geometrodynamics_EQ0880 (13.4.1) | 285 | 1.000 | `A(x):=\left\{\begin{array}{cc} \Lambda(x) & \tau(x) \\ \tau_{*}(x) & 1 \end{array}\right\},` | $A(x):=\left\{\begin{array}{cc} \Lambda(x) & \tau(x) \\ \tau_{*}(x) & 1 \end{array}\right\},$ | $A(x):=\left\{\begin{array}{cc} \Lambda(x) & \tau(x) \\ \tau_{*}(x) & 1 \end{array}\right\},$ |
| mielke-geometrodynamics_EQ0881 (13.4.2) | 285 | 1.000 | `\hat{\Gamma}=\left(\begin{array}{cc} \Gamma^{(L)} & \Gamma^{(T)} \\ \Gamma_{*}^{(T)} & 0 \end{array}\right)= \left(\begin{array}{cc} \Gamma_{\alpha}^{(L) \beta} L_{ \beta}^{\alpha} & \Gamma^{(T) \alpha} \ell P_{\alpha} \\ \Gamma_{\beta}^{*(T)} & \ell P_{*}^{\beta} \end{array} \right)` | $\hat{\Gamma}=\left(\begin{array}{cc} \Gamma^{(L)} & \Gamma^{(T)} \\ \Gamma_{*}^{(T)} & 0 \end{array}\right)=\left(\begin{array}{cc} \Gamma_{\alpha}^{(L) \beta} L_{\beta}^{\alpha} & \Gamma^{(T) \alpha} \ell P_{\alpha} \\ \Gamma_{\beta}^{*(T)} & \ell P_{*}^{\beta} \end{array}\right)$ | $\hat{\Gamma}=\left(\begin{array}{cc} \Gamma^{(L)} & \Gamma^{(T)} \\ \Gamma_{*}^{(T)} & 0 \end{array}\right)=\left(\begin{array}{cc} \Gamma_{\alpha}^{(L) \beta} L_{\beta}^{\alpha} & \Gamma^{(T) \alpha} \ell P_{\alpha} \\ \Gamma_{\beta}^{*(T)} & \ell P_{*}^{\beta} \end{array}\right)$ |
| mielke-geometrodynamics_EQ0882 (13.4.3) | 286 | 1.000 | `\hat{\Gamma} \xrightarrow{A^{-1}(x)} \hat{\Gamma}^{ \prime}=A^{-1}(x) \hat{\Gamma} A(x)+A^{-1}(x) d A(x) .` | $\hat{\Gamma} \xrightarrow{A^{-1}(x)} \hat{\Gamma}^{\prime}=A^{-1}(x) \hat{\Gamma} A(x)+A^{-1}(x) d A(x) .$ | $\hat{\Gamma} \xrightarrow{A^{-1}(x)} \hat{\Gamma}^{\prime}=A^{-1}(x) \hat{\Gamma} A(x)+A^{-1}(x) d A(x) .$ |
| mielke-geometrodynamics_EQ0883 | 286 | 1.000 | `\tau \tau_{*}=-\Lambda \tau_{*} \Lambda^{-1} \tau .` | $\tau \tau_{*}=-\Lambda \tau_{*} \Lambda^{-1} \tau .$ | $\tau \tau_{*}=-\Lambda \tau_{*} \Lambda^{-1} \tau .$ |

| Identifier | Page | Conf. | LaTeX source | Rendered | Image |
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| mielke-geometrodynamics_EQ0884 (13.4.4) | 286 | 1.000 | \hat{R}:=d \hat{\Gamma}+\hat{\Gamma} \wedge \hat{\Gamma}= \left(\begin{array}{cc} R^{(L)}+\Gamma^{(L)} \wedge \Gamma_{*}^{(L)} & d \Gamma^{(T)}+\Gamma^{(L)} \wedge \Gamma^{(T)} \\ d \Gamma_{*}^{(T)}+\Gamma_{*}^{(T)} \wedge \Gamma^{(L)} & 0 \end{array}\right) | $\hat{R}:=d\hat{\Gamma}+\hat{\Gamma}\wedge\hat{\Gamma}=\left(\begin{array}{cc} R^{(L)}+\Gamma^{(L)}\wedge\Gamma_{*}^{(L)} & d\Gamma^{(T)}+\Gamma^{(L)}\wedge\Gamma^{(T)} \\ d\Gamma_{*}^{(T)}+\Gamma_{*}^{(T)}\wedge\Gamma^{(L)} & 0 \end{array}\right)$ | $\hat{R}:=d\hat{\Gamma}+\hat{\Gamma}\wedge\hat{\Gamma}=\left(\begin{array}{cc} R^{(L)}+\Gamma^{(L)}\wedge\Gamma_{*}^{(L)} & d\Gamma^{(T)}+\Gamma^{(L)}\wedge\Gamma^{(T)} \\ d\Gamma_{*}^{(T)}+\Gamma_{*}^{(T)}\wedge\Gamma^{(L)} & 0 \end{array}\right),$ |
| mielke-geometrodynamics_EQ0885 | 286 | 1.000 | R^{(L)}:=d \Gamma^{(L)}+\Gamma^{(L)} \wedge \Gamma^{(L)} | $R^{(L)}:=d\Gamma^{(L)}+\Gamma^{(L)}\wedge\Gamma^{(L)}$ | $R^{(L)}:=d\Gamma^{(L)}+\Gamma^{(L)}\wedge\Gamma^{(L)}$ |
| mielke-geometrodynamics_EQ0886 (13.4.5) | 286 | 1.000 | R^{(T)}:=d \Gamma^{(T)}+\Gamma^{(L)} \wedge \Gamma^{(T)}= \left(T^{\beta}-R_{\alpha}{ }^{\beta} \xi^{\alpha}\right) \ell P_{\beta} | $R^{(T)}:=d\Gamma^{(T)}+\Gamma^{(L)}\wedge\Gamma^{(T)}=\left(T^{\beta}-R_{\alpha}{}^{\beta}\xi^{\alpha}\right)\ell P_{\beta}$ | $R^{(T)}:=d\Gamma^{(T)}+\Gamma^{(L)}\wedge\Gamma^{(T)}=(T^{\beta}-R_{\alpha}{}^{\beta}\xi^{\alpha})\ell P_{\beta}$ |
| mielke-geometrodynamics_EQ0887 (13.4.6) | 286 | 1.000 | \hat{R} \xrightarrow{A^{-1}(x)} \hat{R}^{ \prime}=A^{-1}(x) \hat{R} A(x) . | $\hat{R}\xrightarrow{A^{-1}(x)}\hat{R}'=A^{-1}(x)\hat{R}A(x).$ | $\hat{R}\xrightarrow{A^{-1}(x)}\hat{R}'=A^{-1}(x)\,\hat{R}\,A(x)\,.$ |
| mielke-geometrodynamics_EQ0888 (13.4.7) | 286 | 1.000 | \Gamma^{(L)} \xrightarrow{A^{-1}(x)} \Gamma^{(L) \prime}= \Lambda^{-1}(x) \Gamma^{(L)} \Lambda(x)+\Lambda^{-1}(x) d \Lambda(x) | $\Gamma^{(L)}\xrightarrow{A^{-1}(x)}\Gamma^{(L)\prime}=\Lambda^{-1}(x)\Gamma^{(L)}\Lambda(x)+\Lambda^{-1}(x)d\Lambda(x)$ | $\Gamma^{(L)}\xrightarrow{A^{-1}(x)}\Gamma^{(L)\prime}=A^{-1}(x)\,\Gamma^{(L)}\,A(x)+A^{-1}(x)d\,A(x)$ |
| mielke-geometrodynamics_EQ0891 (13.4.10) | 287 | 1.000 | \vartheta:=\Gamma^{(T)}+D \xi:=\vartheta^{\alpha} P_{ \alpha}, \quad \theta:=\Gamma_{*}^{(T)}+D \xi_{*}:= \theta_{\beta} P_{*}^{\beta}, | $\vartheta:=\Gamma^{(T)}+D\xi:=\vartheta^{\alpha}P_{\alpha},\quad \theta:=\Gamma_{*}^{(T)}+D\xi_{*}:=\theta_{\beta}P_{*}^{\beta},$ | $\vartheta:=\Gamma^{(T)}+D\xi:=\vartheta^{\alpha}\,P_{\alpha}\,,\qquad \theta:=\Gamma_{*}^{(T)}+D\xi_{*}:=\theta_{\beta}\,P_{*}^{\beta}\,,$ |
| mielke-geometrodynamics_EQ0894 (13.4.13) | 287 | 1.000 | D \xi \stackrel{*}{=} 0, \quad D \xi_{*} \stackrel{*}{=} 0, | $D\xi\stackrel{*}{=}0,\quad D\xi_{*}\stackrel{*}{=}0,$ | $D\xi\stackrel{*}{=}0\,,\qquad D\xi_{*}\stackrel{*}{=}0\,,$ |
| mielke-geometrodynamics_EQ0895 (13.4.14) | 287 | 1.000 | \overline{\bar{\Gamma}}=\left(\begin{array}{cc} \Gamma^{(L)} & \vartheta \\ \theta & 0 \end{array} \right), | $\overline{\overline{\Gamma}}=\left(\begin{array}{cc} \Gamma^{(L)} & \vartheta \\ \theta & 0 \end{array}\right),$ | $\overline{\overline{\Gamma}}=\left(\begin{array}{cc} \Gamma^{(L)} & \vartheta \\ \theta & 0 \end{array}\right),$ |
| mielke-geometrodynamics_EQ0896 (13.5.1) | 288 | 1.000 | \hat{\Gamma}=\Gamma_{\alpha}{ }^{\beta} L^{\alpha}{ }_{ \beta}+\vartheta^{\alpha} P_{\alpha}+\theta_{\beta} P_{*}^{\beta}, | $\hat{\Gamma}=\Gamma_{\alpha}{}^{\beta}L^{\alpha}{}_{\beta}+\vartheta^{\alpha}P_{\alpha}+\theta_{\beta}P_{*}^{\beta},$ | $\hat{\Gamma}=\Gamma_{\alpha}{}^{\beta}\,L^{\alpha}{}_{\beta}+\vartheta^{\alpha}\,P_{\alpha}+\theta_{\beta}\,P_{*}^{\beta}\,,$ |
| mielke-geometrodynamics_EQ0899 (13.5.4) | 288 | 1.000 | \tilde{L}_{\mathrm{SL}(5, \mathbb{R})}=-\operatorname{Tr}\{\hat{B} \wedge \hat{R}\}-d \hat{C} . | $\tilde{L}_{\mathrm{SL}(5,\mathbb{R})}=-\mathrm{Tr}\{\hat{B}\wedge\hat{R}\}-d\hat{C}.$ | $\tilde{L}_{\mathrm{SL}(5,\mathbb{R})}=-\mathrm{Tr}\{\hat{B}\wedge\hat{R}\}-d\hat{C}\,.$ |
| mielke-geometrodynamics_EQ0900 (13.5.5) | 289 | 1.000 | \hat{D} B_{A}{ }^{B} \cong \hat{D} \hat{R}_{A}{ }^{B} \equiv 0 . | $\hat{D}B_{A}{}^{B}\cong\hat{D}\hat{R}_{A}{}^{B}\equiv 0.$ | $\hat{D}B_{A}{}^{B}\cong\hat{D}\hat{R}_{A}{}^{B}\equiv 0.$ |
| mielke-geometrodynamics_EQ0901 (13.5.6) | 289 | 1.000 | \tilde{L}_{\mathrm{SSB}}=\tilde{L}_{\mathrm{SL}(5, \mathbb{R})}+\frac{1}{2} \eta_{A B C D E} B^{A B} \wedge B^{C D} \Phi^{E} . | $\tilde{L}_{\mathrm{SSB}}=\tilde{L}_{\mathrm{SL}(5,\mathbb{R})}+\frac{1}{2}\eta_{ABCDE}B^{AB}\wedge B^{CD}\Phi^{E}.$ | $\tilde{L}_{\mathrm{SSB}}=\tilde{L}_{\mathrm{SL}(5,\mathbb{R})}+\frac{1}{2}\eta_{ABCDE}\,B^{AB}\wedge B^{CD}\Phi^{E}\,.$ |
| mielke-geometrodynamics_EQ0902 (13.5.7) | 289 | 1.000 | \hat{g}_{A B} \Phi^{A} \Phi^{B}=\mu^{2}, \quad \Phi_{E} \hat{D} \Phi^{E}=0 | $\hat{g}_{AB}\Phi^{A}\Phi^{B}=\mu^{2},\quad \Phi_{E}\hat{D}\Phi^{E}=0$ | $\hat{g}_{AB}\Phi^{A}\Phi^{B}=\mu^{2}\,,\qquad \Phi_{E}\hat{D}\Phi^{E}=0\,,$ |
| mielke-geometrodynamics_EQ0903 (13.5.8) | 289 | 1.000 | \left\langle\Phi^{E}\right\rangle=\Phi_{0}^{E}=(0,0,0,0, \mu)^{T} | $\left\langle\Phi^{E}\right\rangle=\Phi_{0}^{E}=(0,0,0,0,\mu)^{T}$ | $\langle\Phi^{E}\rangle=\Phi_{0}^{E}=(0,0,0,0,\mu)^{T}$ |
| mielke-geometrodynamics_EQ0904 (13.5.9) | 289 | 1.000 | \tilde{L}_{\mathrm{SSB}}=-\operatorname{Tr}\{\hat{B} \wedge \hat{R}\}+\frac{\mu}{2} \eta_{\alpha \beta \gamma \delta} B^{\alpha \beta} \wedge B^{\gamma \delta}-d C_{ \mathrm{RR}}+2 d C_{\mathrm{TT}} | $\tilde{L}_{\mathrm{SSB}}=-\mathrm{Tr}\{\hat{B}\wedge\hat{R}\}+\frac{\mu}{2}\eta_{\alpha\beta\gamma\delta}B^{\alpha\beta}\wedge B^{\gamma\delta}-dC_{\mathrm{RR}}+2dC_{\mathrm{TT}}$ | $\tilde{L}_{\mathrm{SSB}}=-\mathrm{Tr}\{\hat{B}\wedge\hat{R}\}+\frac{\mu}{2}\eta_{\alpha\beta\gamma\delta}B^{\alpha\beta}\wedge B^{\gamma\delta}-dC_{\mathrm{RR}}+2dC_{\mathrm{TT}}$ |
| mielke-geometrodynamics_EQ0905 (13.5.10) | 290 | 1.000 | d \hat{C}=d C_{\mathrm{RR}}-2 d C_{\mathrm{TT}}, | $d\hat{C}=dC_{\mathrm{RR}}-2dC_{\mathrm{TT}},$ | $d\hat{C}=dC_{\mathrm{RR}}-2dC_{\mathrm{TT}},$ |
| mielke-geometrodynamics_EQ0906 (13.5.11) | 290 | 1.000 | B_{\alpha \beta} \cong \frac{1}{\mu} \eta_{\alpha \beta \gamma \delta}\left[R^{\gamma \delta}-\frac{\Lambda}{3} \theta^{\gamma} \wedge \vartheta^{\delta}\right] | $B_{\alpha\beta}\cong\frac{1}{\mu}\eta_{\alpha\beta\gamma\delta}\left[R^{\gamma\delta}-\frac{\Lambda}{3}\theta^{\gamma}\wedge\vartheta^{\delta}\right]$ | $B_{\alpha\beta}\cong\frac{1}{\mu}\eta_{\alpha\beta\gamma\delta}\left[R^{\gamma\delta}-\frac{\Lambda}{3}\,\theta^{\gamma}\wedge\vartheta^{\delta}\right]$ |

| Identifier | Page | Conf. | LaTeX source | Rendered | Image |
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| mielke-geometrodynamics_EQ0909 (13.5.14) | 291 | 1.000 | `\tilde{L}_{\mathrm{SSB}} \cong-\frac{1}{2 \kappa} R^{ \alpha \beta} \wedge \eta_{\alpha \beta}+\frac{\Lambda}{ \kappa} \eta` | $\tilde{L}_{\mathrm{SSB}} \cong-\frac{1}{2 \kappa} R^{\alpha \beta} \wedge \eta_{\alpha \beta}+\frac{\Lambda}{\kappa} \eta$ | $\tilde{L}_{\mathrm{SSB}} \cong-\frac{1}{2 \kappa} R^{\alpha \beta} \wedge \eta_{\alpha \beta}+\frac{\Lambda}{\kappa} \eta$ |
| mielke-geometrodynamics_EQ0910 (13.5.15) | 291 | 1.000 | `\mu=\frac{4}{3} \kappa \Lambda=\frac{1}{3}(2 \kappa)^{2} \rho_{\Lambda} .` | $\mu=\frac{4}{3} \kappa \Lambda=\frac{1}{3}(2 \kappa)^{2} \rho_{\Lambda} .$ | $\mu=\frac{4}{3} \kappa \Lambda=\frac{1}{3}(2 \kappa)^{2} \rho_{\Lambda} .$ |
| mielke-geometrodynamics_EQ0912 (13.7.1) | 293 | 1.000 | `g_{\mathrm{N}}:=\kappa k^{2}, \quad \lambda:=\Lambda / k^{2},` | $g_{\mathrm{N}}:=\kappa k^{2}, \quad \lambda:=\Lambda / k^{2},$ | $g_{\mathrm{N}}:=\kappa k^{2}, \quad \lambda:=\Lambda / k^{2},$ |
| mielke-geometrodynamics_EQ0913 (13.7.2) | 293 | 1.000 | `k \frac{\partial}{\partial k} g_{\mathrm{N}}=\beta_{1} \left(g_{\mathrm{N}}, \lambda\right)=\left(2+d_{ \mathrm{N}}\right) g_{\mathrm{N}}, \quad k \frac{ \partial}{\partial k} \lambda=\beta_{2}\left(g_{ \mathrm{N}}, \lambda\right),` | $k \frac{\partial}{\partial k} g_{\mathrm{N}}=\beta_{1}\left(g_{\mathrm{N}}, \lambda\right)=\left(2+d_{\mathrm{N}}\right) g_{\mathrm{N}}, \quad k \frac{\partial}{\partial k} \lambda=\beta_{2}\left(g_{\mathrm{N}}, \lambda\right),$ | $k \frac{\partial}{\partial k} g_{\mathrm{N}}=\beta_{1}\left(g_{\mathrm{N}}, \lambda\right)=\left(2+d_{\mathrm{N}}\right) g_{\mathrm{N}}, \quad k \frac{\partial}{\partial k} \lambda=\beta_{2}\left(g_{\mathrm{N}}, \lambda\right),$ |
| mielke-geometrodynamics_EQ0914 (13.7.3) | 293 | 1.000 | `\mu_{*} \leq \frac{4}{3} g_{\mathrm{N} *} \lambda_{*} \simeq 0.2` | $\mu_{*} \leq \frac{4}{3} g_{\mathrm{N} *} \lambda_{*} \simeq 0.2$ | $\mu_{*} \leq \frac{4}{3} g_{\mathrm{N} *} \lambda_{*} \simeq 0.2$ |
| mielke-geometrodynamics_EQ0916 (13.8.2) | 295 | 1.000 | `d C_{\mathrm{TT}}=\frac{1}{2 \ell^{2}}\left(T^{\alpha} \wedge T_{\alpha}+R_{\alpha \beta} \wedge \vartheta^{ \alpha} \wedge \vartheta^{\beta}\right)` | $d C_{\mathrm{TT}}=\frac{1}{2 \ell^{2}}\left(T^{\alpha} \wedge T_{\alpha}+R_{\alpha \beta} \wedge \vartheta^{\alpha} \wedge \vartheta^{\beta}\right)$ | $d C_{\mathrm{TT}}=\frac{1}{2 \ell^{2}}\left(T^{\alpha} \wedge T_{\alpha}+R_{\alpha \beta} \wedge \vartheta^{\alpha} \wedge \vartheta^{\beta}\right)$ |
| mielke-geometrodynamics_EQ0917 (13.8.3) | 295 | 1.000 | `d C_{\mathrm{RR}}=-\frac{1}{2} R_{\alpha}{ }^{\beta} \wedge R_{\beta}{ }^{\alpha}` | $d C_{\mathrm{RR}}=-\frac{1}{2} R_{\alpha}{ }^{\beta} \wedge R_{\beta}{ }^{\alpha}$ | $d C_{\mathrm{RR}}=-\frac{1}{2} R_{\alpha}{ }^{\beta} \wedge R_{\beta}{ }^{\alpha}$ |
| mielke-geometrodynamics_EQ0918 (13.8.4) | 295 | 1.000 | `D R_{\alpha}{ }^{\beta} \equiv 0,` | $D R_{\alpha}{ }^{\beta} \equiv 0,$ | $D R_{\alpha}{ }^{\beta} \equiv 0,$ |
| mielke-geometrodynamics_EQ0921 (13.8.7) | 296 | 1.000 | `L_{\mathrm{SKY}}:=-\frac{1}{2} R_{\alpha \beta} \wedge{ }^{*} R^{\alpha \beta},` | $L_{\mathrm{SKY}}:=-\frac{1}{2} R_{\alpha \beta} \wedge{ }^{*} R^{\alpha \beta},$ | $L_{\mathrm{SKY}}:=-\frac{1}{2} R_{\alpha \beta} \wedge{ }^{*} R^{\alpha \beta},$ |
| mielke-geometrodynamics_EQ0922 (14.1.1) | 302 | 1.000 | `L=L_{g}+L_{\omega}+L_{\mathrm{mat}}` | $L=L_{g}+L_{\omega}+L_{\mathrm{mat}}$ | $L=L_{g}+L_{\omega}+L_{\mathrm{mat}}$ |
| mielke-geometrodynamics_EQ0923 (14.1.2) | 302 | 1.000 | `L_{\omega-g}=\operatorname{Tr}\left\{\wedge^{*}\left( \vartheta \wedge \Omega^{g}\right) \wedge^{*}(\vartheta \wedge \Omega)\right\}` | $L_{\omega-g}=\operatorname{Tr}\left\{\wedge^{*}\left(\vartheta \wedge \Omega^{g}\right) \wedge^{*}(\vartheta \wedge \Omega)\right\}$ | $L_{\omega-g}=\operatorname{Tr}\left\{\wedge^{*}\left(\vartheta \wedge \Omega^{g}\right) \wedge^{*}(\vartheta \wedge \Omega)\right\}$ |
| mielke-geometrodynamics_EQ0924 (14.1.3) | 303 | 1.000 | `L_{\mathrm{GMD} .}=\frac{1}{\ell^{* 2}} L_{\mathrm{W} .}+L_{\mathrm{YM}}+L_{\mathrm{mat}}` | $L_{\mathrm{GMD} .}=\frac{1}{\ell^{* 2}} L_{\mathrm{W} .}+L_{\mathrm{YM}}+L_{\mathrm{mat}}$ | $L_{\mathrm{GMD} .}=\frac{1}{\ell^{* 2}} L_{\mathrm{W} .}+L_{\mathrm{YM}}+L_{\mathrm{mat}}$ |
| mielke-geometrodynamics_EQ0933 (14.1.14) | 305 | 1.000 | `e^{* \pi / 2}=(-1)^{z} *, \quad z:=\frac{s-1}{2} .` | $e^{* \pi / 2}=(-1)^{z} *, \quad z:=\frac{s-1}{2} .$ | $e^{* \pi / 2}=(-1)^{z} *, \quad z:=\frac{s-1}{2} .$ |
| mielke-geometrodynamics_EQ0934 (14.1.15) | 305 | 1.000 | `\xi:=e^{*(-\delta)} \Omega` | $\xi:=e^{*(-\delta)} \Omega$ | $\xi:=e^{*(-\delta)} \Omega$ |
| mielke-geometrodynamics_EQ0935 (14.1.16) | 305 | 1.000 | `\Omega \wedge^{*} \Omega \rightarrow \xi \wedge^{*} \xi= \Omega \wedge^{*} \Omega \cos 2 \delta-(-1)^{z} \Omega \wedge \Omega \sin 2 \delta` | $\Omega \wedge^{*} \Omega \rightarrow \xi \wedge^{*} \xi=\Omega \wedge^{*} \Omega \cos 2 \delta-(-1)^{z} \Omega \wedge \Omega \sin 2 \delta$ | $\Omega \wedge^{*} \Omega \rightarrow \xi \wedge^{*} \xi=\Omega \wedge^{*} \Omega \cos 2 \delta-(-1)^{z} \Omega \wedge \Omega \sin 2 \delta$ |
| mielke-geometrodynamics_EQ0936 (14.1.17) | 305 | 1.000 | `\Omega \wedge \Omega \rightarrow \xi \wedge \xi=\Omega \wedge \Omega \cos 2 \delta-(-1)^{z} \Omega \wedge^{*} \Omega \sin 2 \delta .` | $\Omega \wedge \Omega \rightarrow \xi \wedge \xi=\Omega \wedge \Omega \cos 2 \delta-(-1)^{z} \Omega \wedge^{*} \Omega \sin 2 \delta .$ | $\Omega \wedge \Omega \rightarrow \xi \wedge \xi=\Omega \wedge \Omega \cos 2 \delta-(-1)^{z} \Omega \wedge^{*} \Omega \sin 2 \delta .$ |
| mielke-geometrodynamics_EQ0937 (14.1.18) | 305 | 1.000 | `\vec{E}=\left\{E_{j}:=F_{j 0} \mid j=1,2,3\right\}` | $\vec{E}=\left\{E_{j}:=F_{j 0} \mid j=1,2,3\right\}$ | $\vec{E}=\left\{E_{j}:=F_{j 0} \mid j=1,2,3\right\}$ |
| mielke-geometrodynamics_EQ0938 (14.1.19) | 305 | 1.000 | `\vec{B}=\left\{B_{j}: \left.=\frac{1}{2} \epsilon_{i j k} F^{j k} \right\rvert\, i, j, k=1,2,3\right\}` | $\vec{B}=\left\{B_{j}:\left.=\frac{1}{2} \epsilon_{i j k} F^{j k}\right\rvert\, i, j, k=1,2,3\right\}$ | $\vec{B}=\left\{B_{j}:\left.=\frac{1}{2} \epsilon_{i j k} F^{j k}\right\rvert\, i, j, k=1,2,3\right\}$ |

| Identifier | Page | Conf. | LaTeX source | Rendered | Image |
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| mielke-geometrodynamics_EQ0943 (14.1.24) | 306 | 1.000 | `\Omega=e^{* \delta} \xi .` | $\Omega = e^{*\delta}\xi.$ | $\Omega = e^{*\delta}\xi.$ |
| mielke-geometrodynamics_EQ0944 (14.1.25) | 306 | 1.000 | `\Sigma_{\mathrm{YM}}(\Omega)=\Sigma_{\mathrm{YM}}(\xi)` | $\Sigma_{\mathrm{YM}}(\Omega) = \Sigma_{\mathrm{YM}}(\xi)$ | $\Sigma_{\mathrm{YM}}(\Omega) = \Sigma_{\mathrm{YM}}(\xi)$ |
| mielke-geometrodynamics_EQ0950 (14.1.31) | 307 | 1.000 | `\tau_{e}=\bar{\tau}_{e} \cos \delta-(-1)^{z} \bar{ \tau}_{p} \sin \delta` | $\tau_e = \bar{\tau}_e \cos\delta - (-1)^z \bar{\tau}_p \sin\delta$ | $\tau_e = \bar{\tau}_e \cos\delta - (-1)^z \bar{\tau}_p \sin\delta$ |
| mielke-geometrodynamics_EQ0952 (14.1.34) | 307 | 1.000 | `D \delta=d \delta=0,` | $D\delta = d\delta = 0,$ | $D\delta = d\delta = 0,$ |
| mielke-geometrodynamics_EQ0955 (14.1.37) | 308 | 1.000 | `(-1)^{z} \Sigma_{\mathrm{YM}}(\xi) \wedge d \delta=D \Sigma_{\mathrm{YM}}(\xi) .` | $(-1)^z \Sigma_{\mathrm{YM}}(\xi) \wedge d\delta = D\Sigma_{\mathrm{YM}}(\xi).$ | $(-1)^z \Sigma_{\mathrm{YM}}(\xi) \wedge d\delta = D\Sigma_{\mathrm{YM}}(\xi).$ |
| mielke-geometrodynamics_EQ0958 (14.1.40) | 309 | 1.000 | `\delta=\int_{c_{1}} d \delta+\delta_{0}` | $\delta = \int_{c_1} d\delta + \delta_0$ | $\delta = \int_{c_1} d\delta + \delta_0.$ |
| mielke-geometrodynamics_EQ0969 (14.2.10) | 314 | 1.000 | `\hat{\omega}^{A B}=-\hat{\omega}^{B A}, \quad A, B=0, \ldots, 3+K` | $\hat{\omega}^{AB} = -\hat{\omega}^{BA}, \quad A, B = 0, \ldots, 3+K$ | $\hat{\omega}^{AB} = -\hat{\omega}^{BA}, \quad A, B = 0, \ldots, 3+K$ |
| mielke-geometrodynamics_EQ0975 (14.2.16) | 315 | 1.000 | `\Omega^{\prime}:=\pi\left(d \omega-\omega \wedge \stackrel{\circ}{\omega}-\omega^{g} \wedge \omega\right)= \Omega-\omega^{g} \wedge \omega .` | $\Omega' := \pi\left(d\omega - \omega\wedge \overset{\circ}{\omega} - \omega^g \wedge \omega\right) = \Omega - \omega^g \wedge \omega.$ | $\Omega' := \pi(d\omega - \omega \wedge \overset{\circ}{\omega} - \omega^g \wedge \omega) = \Omega - \omega^g \wedge \omega.$ |
| mielke-geometrodynamics_EQ0980 (14.2.21) | 316 | 1.000 | `\hat{g}_{A B}\left(x, \xi^{j}\right)=\sum_{n=-\infty}^{+ \infty} g_{A B}^{(n)}(x) Y_{n}\left(\xi^{j}\right)` | $\hat{g}_{AB}\left(x, \xi^j\right) = \sum_{n=-\infty}^{+\infty} g_{AB}^{(n)}(x) Y_n\left(\xi^j\right)$ | $\hat{g}_{AB}(x, \xi^j) = \sum_{n=-\infty}^{+\infty} g_{AB}^{(n)}(x) Y_n(\xi^j)$ |
| mielke-geometrodynamics_EQ0981 (14.2.22) | 317 | 1.000 | `M^{*}=\sqrt{\hbar c / G_{\mathrm{N}}} \simeq 10^{19} \mathrm{GeV} / c^{2} .` | $M^* = \sqrt{\hbar c / G_{\mathrm{N}}} \simeq 10^{19}\mathrm{GeV}/c^2.$ | $M^* = \sqrt{\hbar c / G_{\mathrm{N}}} \simeq 10^{19}\mathrm{GeV}/c^2.$ |
| mielke-geometrodynamics_EQ0983 (14.2.24) | 318 | 1.000 | `G=S U(3) \times S U(2) \times U(1)` | $G = SU(3) \times SU(2) \times U(1)$ | $G = SU(3) \times SU(2) \times U(1)$ |
| mielke-geometrodynamics_EQ0984 (14.2.25) | 318 | 1.000 | `B=\mathbb{C} P^{2} \times S^{2} \times S^{1},` | $B = \mathbb{C}P^2 \times S^2 \times S^1,$ | $B = \mathbb{C}P^2 \times S^2 \times S^1,$ |
| mielke-geometrodynamics_EQ0985 (14.2.26) | 318 | 1.000 | `G / H=\frac{S U(3) \times S U(2) \times U(1)}{S U(2) \times U(1) \times U(1)},` | $G/H = \frac{SU(3) \times SU(2) \times U(1)}{SU(2) \times U(1) \times U(1)},$ | $G/H = \frac{SU(3) \times SU(2) \times U(1)}{SU(2) \times U(1) \times U(1)},$ |
| mielke-geometrodynamics_EQ0986 (14.2.27) | 318 | 1.000 | `\widetilde{S}^{7}:=\frac{S O(5) \times S O(3)}{S O(3) \times S O(3)} .` | $\widetilde{S}^7 := \frac{SO(5) \times SO(3)}{SO(3) \times SO(3)}.$ | $\widetilde{S}^7 := \frac{SO(5) \times SO(3)}{SO(3) \times SO(3)}.$ |
| mielke-geometrodynamics_EQ0988 (14.3.1) | 319 | 1.000 | `\varphi \rightarrow \varphi^{\mathrm{C}}:=\bar{\varphi}` | $\varphi \rightarrow \varphi^{\mathrm{C}} := \bar{\varphi}$ | $\varphi \rightarrow \varphi^{\mathrm{C}} := \bar{\varphi}$ |
| mielke-geometrodynamics_EQ0991 (14.3.4) | 320 | 1.000 | `\hat{\psi}=\sum_{F=1}^{\operatorname{dim} \rho(G)}\left( \psi_{-}^{F}(x) \chi_{\rho F}^{-}(\xi)+\psi_{+}^{F}(x) \chi_{\rho F}^{+}(\xi)\right) .` | $\hat{\psi} = \sum_{F=1}^{\operatorname{dim}\rho(G)} \left(\psi_-^F(x)\chi_{\rho F}^-(\xi) + \psi_+^F(x)\chi_{\rho F}^+(\xi)\right).$ | $\hat{\psi} = \sum_{F=1}^{\operatorname{dim}\rho(G)} (\psi_-^F(x)\chi_{\rho F}^-(\xi) + \psi_+^F(x)\chi_{\rho F}^+(\xi)).$ |
| mielke-geometrodynamics_EQ0994 (14.3.7) | 321 | 1.000 | `D^{g+\omega}:=d+i \widetilde{\omega}^{g} \otimes i \omega` | $D^{g+\omega} := d + i\widetilde{\omega}^g \otimes i\omega$ | $D^{g+\omega} := d + i\widetilde{\omega}^g \otimes i\omega$ |
| mielke-geometrodynamics_EQ0999 (14.3.12) | 322 | 1.000 | `\left(\widehat{\gamma}^{n+1}\right)^{2}=-1 \Rightarrow \widehat{\gamma}^{n+1} \widehat{\psi}=\mp i \widehat{ \psi} .` | $\left(\widehat{\gamma}^{n+1}\right)^2 = -1 \Rightarrow \widehat{\gamma}^{n+1}\widehat{\psi} = \mp i\widehat{\psi}.$ | $(\widehat{\gamma}^{n+1})^2 = -1 \quad \Rightarrow \quad \widehat{\gamma}^{n+1}\widehat{\psi} = \mp i\widehat{\psi}.$ |
| mielke-geometrodynamics_EQ1000 (14.3.13) | 322 | 1.000 | `\left(\widehat{\gamma}^{n+1}\right)^{2}=+1 \Rightarrow \widehat{\gamma}^{n+1} \widehat{\psi}=\mp \widehat{\psi} .` | $\left(\widehat{\gamma}^{n+1}\right)^2 = +1 \Rightarrow \widehat{\gamma}^{n+1}\widehat{\psi} = \mp\widehat{\psi}.$ | $(\widehat{\gamma}^{n+1})^2 = +1 \quad \Rightarrow \quad \widehat{\gamma}^{n+1}\widehat{\psi} = \mp\widehat{\psi}.$ |
| mielke-geometrodynamics_EQ1006 (14.4.1) | 324 | 1.000 | `\bar{Q}^{(i)}=Q^{(i)} \cos \delta+P^{(i)} \sin \delta, \quad Q^{(\circ)} \equiv Q_{e} .` | $\bar{Q}^{(i)} = Q^{(i)} \cos\delta + P^{(i)} \sin\delta, \quad Q^{(\circ)} \equiv Q_e.$ | $\bar{Q}^{(i)} = Q^{(i)} \cos\delta + P^{(i)} \sin\delta, \quad Q^{(\circ)} \equiv Q_e.$ |
| mielke-geometrodynamics_EQ1009 (14.4.4) | 325 | 1.000 | `\rho^{2}:=r^{2}+\frac{J(J+1) \hbar^{2}}{M^{2} c^{2}} \cos ^{2} \vartheta` | $\rho^2 := r^2 + \frac{J(J+1)\hbar^2}{M^2c^2} \cos^2\vartheta$ | $\rho^2 := r^2 + \frac{J(J+1)\hbar^2}{M^2c^2} \cos^2\vartheta$ |

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| mielke-geometrodynamics_EQ1010 (14.4.5) | 325 | 1.000 | `\Delta:=r^{2}-\frac{2 M \hbar}{M^{* 2} c} r+\frac{J(J+1) \hbar^{2}}{M^{2} c^{2}}+\frac{\alpha_{e} \hbar^{2}}{M^{* 2} c^{2}} \operatorname{Tr} \bar{Q}^{2}` | $\Delta := r^2 - \frac{2M\hbar}{M^{*2}c} r + \frac{J(J+1)\hbar^2}{M^2c^2} + \frac{\alpha_e \hbar^2}{M^{*2}c^2} \operatorname{Tr} \bar{Q}^2$ | $\Delta := r^2 - \frac{2M\hbar}{M^{*2}c} r + \frac{J(J+1)\hbar^2}{M^2c^2} + \frac{\alpha_e \hbar^2}{M^{*2}c^2} \operatorname{Tr} \overline{Q}^2$ |
| mielke-geometrodynamics_EQ1017 (14.4.12) | 327 | 1.000 | `d s^{2}=-\frac{\bar{\Delta}}{\bar{\rho}^{2}}\left(\frac{4 N \hbar}{M c} \sin ^{2}\left(\frac{\vartheta}{2}\right) d \phi+c d t\right)^{2}+\frac{\bar{\rho}^{2}}{\bar{\Delta}} \left(d r^{2}+\bar{\Delta} d \Omega^{2}\right),` | $ds^2 = -\frac{\bar{\Delta}}{\bar{\rho}^2}\left(\frac{4N\hbar}{Mc}\sin^2\left(\frac{\vartheta}{2}\right)d\phi + c\,dt\right)^2 + \frac{\bar{\rho}^2}{\bar{\Delta}}\left(dr^2 + \bar{\Delta} d\Omega^2\right),$ | $ds^2 = -\frac{\overline{\Delta}}{\overline{\rho}^2}\left(\frac{4N\hbar}{Mc}\sin^2\left(\frac{\vartheta}{2}\right)d\phi + c\,dt\right)^2 + \frac{\overline{\rho}^2}{\overline{\Delta}}(dr^2 + \overline{\Delta}\,d\Omega^2),$ |
| mielke-geometrodynamics_EQ1018 (14.4.13) | 328 | 1.000 | `\bar{\Delta}:=r^{2}-\frac{2 M \hbar}{M^{* 2} c} r-\frac{N^{2} \hbar^{2}}{M^{2} c^{2}}+\frac{\alpha_{e} \hbar^{2}}{M^{* 2} c^{2}} \operatorname{Tr} \bar{Q}^{2}` | $\bar{\Delta} := r^2 - \frac{2M\hbar}{M^{*2}c} r - \frac{N^2\hbar^2}{M^2c^2} + \frac{\alpha_e\hbar^2}{M^{*2}c^2} \operatorname{Tr} \bar{Q}^2$ | $\overline{\Delta} := r^2 - \frac{2M\hbar}{M^{*2}c} r - \frac{N^2\hbar^2}{M^2c^2} + \frac{\alpha_e\hbar^2}{M^{*2}c^2} \operatorname{Tr} \overline{Q}^2$ |
| mielke-geometrodynamics_EQ1019 (14.4.14) | 328 | 1.000 | `\bar{\rho}^{2}:=r^{2}+\frac{N^{2} \hbar^{2}}{M^{2} c^{2}}` | $\bar{\rho}^2 := r^2 + \frac{N^2\hbar^2}{M^2c^2}$ | $\overline{\rho}^2 := r^2 + \frac{N^2\hbar^2}{M^2c^2}$ |
| mielke-geometrodynamics_EQ1020 (14.4.15) | 328 | 1.000 | `\begin{aligned} A= & -\frac{1}{\bar{\rho}^{2}}(\bar{Q} \cos \delta+N \bar{Q} \sin \delta) c d t \\ & +\frac{1-\cos \vartheta}{\bar{\rho}^{2}} \bar{Q}\left[-\bar{ \rho}^{2} \sin \delta+2 r \frac{N \hbar}{M c} \cos \delta \right] d \phi \end{aligned}` | $\begin{aligned} A= & -\frac{1}{\bar{\rho}^2}(\bar{Q}\cos\delta + N\bar{Q}\sin\delta)c\,dt \\ & +\frac{1-\cos\vartheta}{\bar{\rho}^2}\bar{Q}\left[-\bar{\rho}^2\sin\delta + 2r\frac{N\hbar}{Mc}\cos\delta\right]d\phi \end{aligned}$ | $\begin{aligned} A= & -\frac{1}{\overline{\rho}^2}(\overline{Q}\cos\delta + N\overline{Q}\sin\delta)c\,dt \\ & +\frac{1-\cos\vartheta}{\overline{\rho}^2}\overline{Q}\left[-\overline{\rho}^2\sin\delta + 2r\frac{N\hbar}{Mc}\cos\delta\right]d\phi. \end{aligned}$ |
| mielke-geometrodynamics_EQ1022 (14.4.17) | 328 | 1.000 | `M^{2} / M_{\mathrm{ir}}^{2}=\frac{\left[1+\frac{1}{4} \left(\alpha_{e}^{2} \operatorname{Tr} \bar{Q}^{2}-2 N^{2}\right)\left(M^{*} / M_{\mathrm{ir}}\right)^{4} \right]^{2}}{1-\frac{1}{4} N^{2}\left(M^{*} / M_{ \mathrm{ir}}\right)^{4}},` | $M^2/M_{\mathrm{ir}}^2 = \frac{\left[1+\frac{1}{4}\left(\alpha_e^2\operatorname{Tr}\bar{Q}^2 - 2N^2\right)\left(M^*/M_{\mathrm{ir}}\right)^4\right]^2}{1-\frac{1}{4}N^2\left(M^*/M_{\mathrm{ir}}\right)^4},$ | $M^2/M_{\mathrm{ir}}^2 = \frac{\left[1+\frac{1}{4}(\alpha_e^2\operatorname{Tr}\overline{Q}^2 - 2N^2)(M^*/M_{\mathrm{ir}})^4\right]^2}{1-\frac{1}{4}N^2(M^*/M_{\mathrm{ir}})^4},$ |
| mielke-geometrodynamics_EQ1023 (15.0.1) | 335 | 1.000 | `\ell:=2 \pi \hbar /\left(M_{P} c\right)=\ell^{*} / \sqrt{ \kappa} \simeq 1.3 \times 10^{-13} \mathrm{~cm}` | $\ell := 2\pi\hbar/(M_P c) = \ell^*/\sqrt{\kappa} \simeq 1.3\times 10^{-13}\ \mathrm{cm}$ | $\ell := 2\pi\hbar/(M_P c) = \ell^*/\sqrt{\kappa} \simeq 1.3\times 10^{-13}\ \mathrm{cm}$ |
| mielke-geometrodynamics_EQ1024 (15.0.2) | 335 | 1.000 | `V_{\mathrm{Yu}}(r) \sim \frac{1}{r} e^{-r m_{\pi} c / \hbar},` | $V_{\mathrm{Yu}}(r) \sim \frac{1}{r} e^{-r m_\pi c/\hbar},$ | $V_{\mathrm{Yu}}(r) \sim \frac{1}{r} e^{-r m_\pi c/\hbar},$ |
| mielke-geometrodynamics_EQ1026 (15.1.2) | 336 | 1.000 | `L_{f g}=P\left(\vartheta^{f}, \vartheta^{g}\right) \eta,` | $L_{fg} = P\left(\vartheta^f, \vartheta^g\right)\eta,$ | $L_{fg} = P(\vartheta^f, \vartheta^g)\eta,$ |
| mielke-geometrodynamics_EQ1027 (15.1.3) | 337 | 1.000 | `\delta L_{f g}=: \delta \vartheta^{f} \wedge \Sigma^{f}+ \delta \vartheta^{g} \wedge \Sigma^{g} .` | $\delta L_{fg} =: \delta\vartheta^f \wedge \Sigma^f + \delta\vartheta^g \wedge \Sigma^g.$ | $\delta L_{fg} =: \delta\vartheta^f \wedge \Sigma^f + \delta\vartheta^g \wedge \Sigma^g.$ |
| mielke-geometrodynamics_EQ1028 (15.1.4) | 337 | 1.000 | `\frac{1}{a} \vartheta^{f} \wedge \Sigma^{f}+\frac{1}{b} \vartheta^{g} \wedge \Sigma^{g}=2 L_{f g} .` | $\frac{1}{a}\vartheta^f \wedge \Sigma^f + \frac{1}{b}\vartheta^g \wedge \Sigma^g = 2L_{fg}.$ | $\frac{1}{a}\vartheta^f \wedge \Sigma^f + \frac{1}{b}\vartheta^g \wedge \Sigma^g = 2\,L_{fg}.$ |
| mielke-geometrodynamics_EQ1029 (15.1.5) | 337 | 1.000 | `L_{f g}^{\prime}=\frac{m_{f}^{2}}{\ell^{2}}\left\| \operatorname{det} g_{i j}\right\|^{u}\left\| \operatorname{det} f_{i j}\right\|^{1 / 2-u}\left( \vartheta^{f}-\vartheta^{g}\right) \wedge\left( \vartheta^{f}-\vartheta^{g}\right) \wedge \vartheta^{g} \wedge \vartheta^{g}` | $L'_{fg} = \frac{m_f^2}{\ell^2}\left\|\det g_{ij}\right\|^u \left\|\det f_{ij}\right\|^{1/2-u}\left(\vartheta^f - \vartheta^g\right)\wedge\left(\vartheta^f - \vartheta^g\right)\wedge\vartheta^g\wedge\vartheta^g$ | $L'_{fg} = \frac{m_f^2}{\ell^2}\left\|\det g_{ij}\right\|^u \left\|\det f_{ij}\right\|^{1/2-u}(\vartheta^f - \vartheta^g)\wedge(\vartheta^f - \vartheta^g)\wedge\vartheta^g\wedge\vartheta^g$ |
| mielke-geometrodynamics_EQ1035 (15.1.12) | 338 | 1.000 | `\vartheta^{m_{f}}:=\vartheta^{f}-\vartheta^{g}` | $\vartheta^{m_f} := \vartheta^f - \vartheta^g$ | $\vartheta^{m_f} := \vartheta^f - \vartheta^g$ |

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| mielke-geometrodynamics_EQ1036 (15.1.13) | 338 | ■1.000 | `\begin{aligned} d s^{2} & =\frac{1}{1+\kappa} g^{ \alpha \beta}\left(\vartheta_{\alpha}^{g} \otimes_{s} \vartheta_{\beta}^{g}+\kappa \vartheta_{\alpha}^{f} \otimes \vartheta_{\beta}^{f}\right) \\ & =\frac{1}{1+ \kappa}\left(g_{i j}+\kappa f_{i j}\right) d x^{i} \otimes_{s} d x^{j} \end{aligned}` | $\begin{aligned} d s^{2} & =\frac{1}{1+\kappa} g^{ \alpha \beta}\left(\vartheta_{\alpha}^{g} \otimes_{s} \vartheta_{\beta}^{g}+\kappa \vartheta_{\alpha}^{f} \otimes \vartheta_{\beta}^{f}\right) \\ & =\frac{1}{1+ \kappa}\left(g_{i j}+\kappa f_{i j}\right) d x^{i} \otimes_{s} d x^{j} \end{aligned}$ | $\begin{aligned} d s^{2} & =\frac{1}{1+\kappa} g^{ \alpha \beta}\left(\vartheta_{\alpha}^{g} \otimes_{s} \vartheta_{\beta}^{g}+\kappa \vartheta_{\alpha}^{f} \otimes \vartheta_{\beta}^{f}\right) \\ & =\frac{1}{1+ \kappa}\left(g_{i j}+\kappa f_{i j}\right) d x^{i} \otimes_{s} d x^{j} . \end{aligned}$ |
| mielke-geometrodynamics_EQ1037 (15.1.14) | 338 | ■1.000 | `\kappa=\ell^{* 2} / \ell^{2}=G_{\mathrm{N}} / G_{ \mathrm{S}}=0.38 \times 10^{-38}` | $\kappa=\ell^{* 2} / \ell^{2}=G_{\mathrm{N}} / G_{ \mathrm{S}}=0.38 \times 10^{-38}$ | $\kappa=\ell^{* 2} / \ell^{2}=G_{\mathrm{N}} / G_{ \mathrm{S}}=0.38 \times 10^{-38}$ |
| mielke-geometrodynamics_EQ1038 (15.1.15) | 339 | ■1.000 | `e^{-\lambda^{g, f}}:=1-\frac{2 \mu^{g, f}}{r}-\frac{1}{3} \Lambda^{g, f} r^{2},` | $e^{-\lambda^{g, f}}:=1-\frac{2 \mu^{g, f}}{r}-\frac{1}{3} \Lambda^{g, f} r^{2},$ | $e^{-\lambda^{g, f}}:=1-\frac{2 \mu^{g, f}}{r}-\frac{1}{3} \Lambda^{g, f} r^{2},$ |
| mielke-geometrodynamics_EQ1040 (15.1.17) | 339 | ■1.000 | `e^{-\lambda^{f}} \simeq 1-\frac{2 \mu^{f}}{r} \exp \left(-r m_{f} c / \hbar\right) .` | $e^{-\lambda^{f}} \simeq 1-\frac{2 \mu^{f}}{r} \exp \left(-r m_{f} c / \hbar\right) .$ | $e^{-\lambda^{f}} \simeq 1-\frac{2 \mu^{f}}{r} \exp \left(-r m_{f} c / \hbar\right) .$ |
| mielke-geometrodynamics_EQ1041 (15.1.18) | 340 | ■1.000 | `E_{\alpha \beta}:\left(2^{+}\right) \oplus 2\left(1^{-} \right) \oplus 2\left(0^{+}\right) \oplus\left(1^{+} \right)` | $E_{\alpha \beta}:\left(2^{+}\right) \oplus 2\left(1^{-} \right) \oplus 2\left(0^{+}\right) \oplus\left(1^{+} \right)$ | $E_{\alpha \beta}:\left(2^{+}\right) \oplus 2\left(1^{-} \right) \oplus 2\left(0^{+}\right) \oplus\left(1^{+} \right)$ |
| mielke-geometrodynamics_EQ1043 (15.1.20) | 342 | ■1.000 | `\frac{M_{\mathrm{U}}}{M_{\mathrm{P}}}=\frac{\ell_{ \mathrm{H}}}{\ell^{*}} \cdot \frac{\ell}{\ell^{*}}= \frac{1}{\kappa} \frac{\ell_{\mathrm{H}}}{\ell} \simeq 10^{80}` | $\frac{M_{\mathrm{U}}}{M_{\mathrm{P}}}=\frac{\ell_{ \mathrm{H}}}{\ell^{*}} \cdot \frac{\ell}{\ell^{*}}= \frac{1}{\kappa} \frac{\ell_{\mathrm{H}}}{\ell} \simeq 10^{80}$ | $\frac{M_{\mathrm{U}}}{M_{\mathrm{P}}}=\frac{\ell_{ \mathrm{H}}}{\ell^{*}} \cdot \frac{\ell}{\ell^{*}}= \frac{1}{\kappa} \frac{\ell_{\mathrm{H}}}{\ell} \simeq 10^{80}$ |
| mielke-geometrodynamics_EQ1044 (15.2.1) | 343 | ■1.000 | `\begin{aligned} \bar{G} & =S L(2 f, \mathbb{C}) \otimes S L(2 c, \mathbb{C}) \\ & \supset S U(f)_{\mathrm{L}} \otimes S U(f)_{\mathrm{R}} \otimes S U(c)_{\mathrm{L}} \otimes S U(c)_{\mathrm{R}} \end{aligned}` | $\begin{aligned} \bar{G} & =S L(2 f, \mathbb{C}) \otimes S L(2 c, \mathbb{C}) \\ & \supset S U(f)_{\mathrm{L}} \otimes S U(f)_{\mathrm{R}} \otimes S U(c)_{\mathrm{L}} \otimes S U(c)_{\mathrm{R}} \end{aligned}$ | $\begin{aligned} \bar{G} & =S L(2 f, \mathbb{C}) \otimes S L(2 c, \mathbb{C}) \\ & \supset S U(f)_{\mathrm{L}} \otimes S U(f)_{\mathrm{R}} \otimes S U(c)_{\mathrm{L}} \otimes S U(c)_{\mathrm{R}} \end{aligned}$ |
| mielke-geometrodynamics_EQ1045 (15.2.2) | 343 | ■1.000 | `\bar{L}(M):=M^{4} \times \bar{G} \supset M^{4} \times S L(2, \mathbb{C})` | $\bar{L}(M):=M^{4} \times \bar{G} \supset M^{4} \times S L(2, \mathbb{C})$ | $\bar{L}(M):=M^{4} \times \bar{G} \supset M^{4} \times S L(2, \mathbb{C})$ |
| mielke-geometrodynamics_EQ1046 (15.2.3) | 344 | ■1.000 | `\bar{\gamma}=\bar{E}_{j}^{\alpha}(m) \gamma_{\alpha} \otimes d x^{j}=\bar{E}_{j} d x^{j}` | $\bar{\gamma}=\bar{E}_{j}^{\alpha}(m) \gamma_{\alpha} \otimes d x^{j}=\bar{E}_{j} d x^{j}$ | $\bar{\gamma}=\bar{E}_{j}^{\alpha}(m) \gamma_{\alpha} \otimes d x^{j}=\bar{E}_{j} d x^{j}$ |
| mielke-geometrodynamics_EQ1048 (15.2.5) | 344 | ■1.000 | `\frac{1}{4} \operatorname{Tr}\left(\bar{\gamma} \otimes_{s} \bar{\gamma}\right)=f_{i j} d x^{i} \otimes_{s} d x^{j}` | $\frac{1}{4} \operatorname{Tr}\left(\bar{\gamma} \otimes_{s} \bar{\gamma}\right)=f_{i j} d x^{i} \otimes_{s} d x^{j}$ | $\frac{1}{4} \operatorname{Tr}\left(\bar{\gamma} \otimes_{s} \bar{\gamma}\right)=f_{i j} d x^{i} \otimes_{s} d x^{j}$ |
| mielke-geometrodynamics_EQ1052 (15.2.9) | 345 | ■1.000 | `\bar{\omega}_{i}=\frac{1}{2} \Gamma_{i}^{(f) \alpha \beta j} \sigma_{\alpha \beta} \lambda_{j}^{(f)} \oplus \frac{1}{2} \Gamma_{i}^{(c) \alpha \beta j} \sigma_{\alpha \beta} \lambda_{j}^{(c)} \oplus A_{i} .` | $\bar{\omega}_{i}=\frac{1}{2} \Gamma_{i}^{(f) \alpha \beta j} \sigma_{\alpha \beta} \lambda_{j}^{(f)} \oplus \frac{1}{2} \Gamma_{i}^{(c) \alpha \beta j} \sigma_{\alpha \beta} \lambda_{j}^{(c)} \oplus A_{i} .$ | $\bar{\omega}_{i}=\frac{1}{2} \Gamma_{i}^{(f) \alpha \beta j} \sigma_{\alpha \beta} \lambda_{j}^{(f)} \oplus \frac{1}{2} \Gamma_{i}^{(c) \alpha \beta j} \sigma_{\alpha \beta} \lambda_{j}^{(c)} \oplus A_{i} .$ |
| mielke-geometrodynamics_EQ1053 (15.2.10) | 345 | ■1.000 | `\bar{\Theta}:=\bar{D} \bar{\gamma}=d \bar{\gamma}-[\bar{ \omega}, \bar{\gamma}]` | $\bar{\Theta}:=\bar{D} \bar{\gamma}=d \bar{\gamma}-[\bar{ \omega}, \bar{\gamma}]$ | $\bar{\Theta}:=\bar{D} \bar{\gamma}=d \bar{\gamma}-[\bar{ \omega}, \bar{\gamma}]$ |
| mielke-geometrodynamics_EQ1054 (15.2.11) | 345 | ■1.000 | `\bar{\Omega}=d \bar{\omega}-\bar{\omega} \wedge \bar{ \omega}` | $\bar{\Omega}=d \bar{\omega}-\bar{\omega} \wedge \bar{ \omega}$ | $\bar{\Omega}=d \bar{\omega}-\bar{\omega} \wedge \bar{ \omega}$ |
| mielke-geometrodynamics_EQ1056 (15.2.13) | 346 | ■1.000 | `\psi=\left\{\psi^{\left(q_{f}, q_{c}\right)} \mid q_{f}=1, \ldots, f ; q_{c}=1, \ldots, c\right\} .` | $\psi=\left\{\psi^{\left(q_{f}, q_{c}\right)} \mid q_{f}=1, \ldots, f ; q_{c}=1, \ldots, c\right\} .$ | $\psi=\left\{\psi^{\left(q_{f}, q_{c}\right)} \mid q_{f}=1, \ldots, f ; q_{c}=1, \ldots, c\right\} .$ |
| mielke-geometrodynamics_EQ1061 (16.1.2) | 354 | ■1.000 | `B=\frac{2 \hbar c}{\ell^{* 2}} \Lambda_{\mathrm{eff}}=- \frac{3 \kappa}{2} \frac{\hbar c}{\ell^{* 4}}` | $B=\frac{2 \hbar c}{\ell^{* 2}} \Lambda_{\mathrm{eff}}=- \frac{3 \kappa}{2} \frac{\hbar c}{\ell^{* 4}}$ | $B=\frac{2 \hbar c}{\ell^{* 2}} \Lambda_{\mathrm{eff}}=- \frac{3 \kappa}{2} \frac{\hbar c}{\ell^{* 4}}$ |

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| mielke-geometrodynamics_EQ1063 (16.2.2) | 355 | 1.000 | `\square=\frac{1}{\sqrt{\|f\|}} \partial_{i}\left(f^{i j} \sqrt{\|f\|} \partial_{j}\right)` | $\square=\frac{1}{\sqrt{\|f\|}} \partial_{i}\left(f^{i j} \sqrt{\|f\|} \partial_{j}\right)$ | $\square=\frac{1}{\sqrt{\|f\|}} \partial_{i}(f^{i j} \sqrt{\|f\|} \partial_{j})$ |
| mielke-geometrodynamics_EQ1064 (16.2.3) | 355 | 1.000 | `\varphi=m \frac{c}{\hbar} \frac{1}{\rho} F_{n m}^{\iota} \left(\rho^{*}\right) Y_{\iota}^{m}(\vartheta, \phi) e^{-i t \omega m c^{2 / \hbar}} .` | $\varphi=m \frac{c}{\hbar} \frac{1}{\rho} F_{n m}^{\iota}\left(\rho^{*}\right) Y_{\iota}^{m}(\vartheta, \phi) e^{-i t \omega m c^{2 / \hbar}}$. | $\varphi=m \frac{c}{\hbar} \frac{1}{\rho} F_{n m}^{\iota}(\rho^{*}) Y_{\iota}^{m}(\vartheta, \phi) e^{-i t \omega m c^{2 / \hbar}}$. |
| mielke-geometrodynamics_EQ1067 (16.2.6) | 355 | 1.000 | `\beta=\frac{\sqrt{2 \pi \kappa}}{\ell^{*}} / \frac{m c}{\hbar}=\frac{\ell_{m}}{\ell} .` | $\beta=\frac{\sqrt{2 \pi \kappa}}{\ell^{*}} / \frac{m c}{\hbar}=\frac{\ell_{m}}{\ell}$. | $\beta=\frac{\sqrt{2 \pi \kappa}}{\ell^{*}} \Big/ \frac{m c}{\hbar}=\frac{\ell_{m}}{\ell}$. |
| mielke-geometrodynamics_EQ1072 (16.3.1) | 358 | 1.000 | `\operatorname{Tr} \bar{Q}^{2}=-\frac{4 b}{\alpha_{e}} Y+I(I+1)-\frac{1}{4} Y^{2} .` | $\operatorname{Tr} \bar{Q}^{2}=-\frac{4 b}{\alpha_{e}} Y+I(I+1)-\frac{1}{4} Y^{2}$. | $\operatorname{Tr} \overline{Q}^{2}=-\frac{4 b}{\alpha_{e}} Y+I(I+1)-\frac{1}{4} Y^{2}$. |
| mielke-geometrodynamics_EQ1073 (16.3.2) | 358 | 1.000 | `Q_{e}=I_{3}+\frac{1}{2} Y-\frac{2}{3} C .` | $Q_{e}=I_{3}+\frac{1}{2} Y-\frac{2}{3} C$. | $Q_{e}=I_{3}+\frac{1}{2} Y-\frac{2}{3} C$. |
| mielke-geometrodynamics_EQ1074 (16.3.3) | 359 | 1.000 | `\frac{M^{2}}{M^{* 2}}=\left\{1-b Y+\frac{\alpha_{e}}{4} \left[I(I+1)-\frac{1}{4} Y^{2}\right]\right\}^{2}+ \frac{1}{4} J(J+1)` | $\frac{M^{2}}{M^{* 2}}=\left\{1-b Y+\frac{\alpha_{e}}{4}\left[I(I+1)-\frac{1}{4} Y^{2}\right]\right\}^{2}+\frac{1}{4} J(J+1)$ | $\frac{M^{2}}{M^{* 2}}=\left\{1-b Y+\frac{\alpha_{e}}{4}[I(I+1)-\frac{1}{4} Y^{2}]\right\}^{2}+\frac{1}{4} J(J+1)$ |
| mielke-geometrodynamics_EQ1075 (16.3.4) | 360 | 1.000 | `T_{\bullet}=\frac{2 \hbar c}{S_{A} k_{B}}\left(r_{+}- \frac{M}{M^{* 2}} \frac{\hbar}{c}\right) .` | $T_{\bullet}=\frac{2 \hbar c}{S_{A} k_{B}}\left(r_{+}-\frac{M}{M^{* 2}} \frac{\hbar}{c}\right)$. | $T_{\bullet}=\frac{2 \hbar c}{S_{A} k_{B}}\left(r_{+}-\frac{M}{M^{* 2}} \frac{\hbar}{c}\right)$. |
| mielke-geometrodynamics_EQ1076 (A.1) | 364 | 1.000 | `x^{A} y_{A}:=\sum_{A=0}^{n} \sum_{B=0}^{n} x^{A} y^{B} g_{A B} .` | $x^{A} y_{A}:=\sum_{A=0}^{n} \sum_{B=0}^{n} x^{A} y^{B} g_{A B}$. | $x^{A} y_{A}:=\sum_{A=0}^{n} \sum_{B=0}^{n} x^{A} y^{B} g_{A B}$. |
| mielke-geometrodynamics_EQ1077 (A.2) | 364 | 1.000 | `c=\hbar=1 .` | $c=\hbar=1$. | $c=\hbar=1$. |
| mielke-geometrodynamics_EQ1080 (A.5) | 365 | 1.000 | `\left\{\sigma^{i}, \sigma^{j}\right\}=g^{i j}` | $\left\{\sigma^{i}, \sigma^{j}\right\}=g^{i j}$ | $\{\sigma^{i}, \sigma^{j}\}=g^{i j}$ |
| mielke-geometrodynamics_EQ1081 (A.6) | 365 | 1.000 | `\left(\gamma^{\alpha}\right)^{\mathrm{T}}:=\left( \gamma^{0}, \gamma^{k}\right),` | $\left(\gamma^{\alpha}\right)^{\mathrm{T}}:=\left(\gamma^{0}, \gamma^{k}\right)$, | $(\gamma^{\alpha})^{\mathrm{T}}:=(\gamma^{0}, \gamma^{k})$, |
| mielke-geometrodynamics_EQ1083 (A.8) | 365 | 1.000 | `\gamma^{\alpha} \gamma^{\beta}+\gamma^{\beta} \gamma^{ \alpha}=2 g^{\alpha \beta}` | $\gamma^{\alpha} \gamma^{\beta}+\gamma^{\beta} \gamma^{\alpha}=2 g^{\alpha \beta}$ | $\gamma^{\alpha} \gamma^{\beta}+\gamma^{\beta} \gamma^{\alpha}=2 g^{\alpha \beta}$ |
| mielke-geometrodynamics_EQ1084 (A.9) | 365 | 1.000 | `\gamma^{0+}=\gamma^{0}, \quad \gamma^{k+}=-\gamma^{k}, \quad \gamma^{5+}=\gamma^{5} .` | $\gamma^{0+}=\gamma^{0}, \quad \gamma^{k+}=-\gamma^{k}, \quad \gamma^{5+}=\gamma^{5}$. | $\gamma^{0+}=\gamma^{0}, \quad \gamma^{k+}=-\gamma^{k}, \quad \gamma^{5+}=\gamma^{5}$. |
| mielke-geometrodynamics_EQ1087 (A.14) | 366 | 1.000 | `C(1,3)=C(0,2) \otimes C(1,1) .` | $C(1,3)=C(0,2) \otimes C(1,1)$. | $C(1,3)=C(0,2) \otimes C(1,1)$. |
| mielke-geometrodynamics_EQ1091 (B.1) | 368 | 1.000 | `\alpha^{(p)}=\frac{1}{p!} A_{\alpha_{1} \cdots \alpha_{p}} \vartheta^{\alpha_{1}} \wedge \cdots \wedge \vartheta^{\alpha_{p}} \in C^{\infty}\left(\wedge^{p} T^{*}(M)\right) .` | $\alpha^{(p)}=\frac{1}{p!} A_{\alpha_{1} \cdots \alpha_{p}} \vartheta^{\alpha_{1}} \wedge \cdots \wedge \vartheta^{\alpha_{p}} \in C^{\infty}\left(\wedge^{p} T^{*}(M)\right)$. | $\alpha^{(p)}=\frac{1}{p!} A_{\alpha_{1} \cdots \alpha_{p}} \vartheta^{\alpha_{1}} \wedge \cdots \wedge \vartheta^{\alpha_{p}} \in C^{\infty}(\wedge^{p} T^{*}(M))$. |
| mielke-geometrodynamics_EQ1092 (B.2) | 368 | 1.000 | `\begin{gathered} \alpha^{(p)} \wedge \beta^{(q)}:= \frac{1}{(p!) \cdot(q!)} A_{\alpha_{1} \cdots \alpha_{p}} \cdot B_{\beta_{1} \cdots \beta_{q}} \vartheta^{ \alpha_{1}} \wedge \cdots \wedge \vartheta^{\alpha_{p}} \\ \wedge \vartheta^{\beta_{1}} \wedge \cdots \wedge \vartheta^{\beta_{q}} \end{gathered}` | $\begin{gathered} \alpha^{(p)} \wedge \beta^{(q)}:=\frac{1}{(p!) \cdot(q!)} A_{\alpha_{1} \cdots \alpha_{p}} \cdot B_{\beta_{1} \cdots \beta_{q}} \vartheta^{\alpha_{1}} \wedge \cdots \wedge \vartheta^{\alpha_{p}} \\ \wedge \vartheta^{\beta_{1}} \wedge \cdots \wedge \vartheta^{\beta_{q}} \end{gathered}$ | $\begin{gathered} \alpha^{(p)} \wedge \beta^{(q)}:=\frac{1}{(p!) \cdot(q!)} A_{\alpha_{1} \cdots \alpha_{p}} \cdot B_{\beta_{1} \cdots \beta_{q}} \vartheta^{\alpha_{1}} \wedge \cdots \wedge \vartheta^{\alpha_{p}} \\ \wedge \vartheta^{\beta_{1}} \wedge \cdots \wedge \vartheta^{\beta_{q}} \end{gathered}$ |
| mielke-geometrodynamics_EQ1093 (B.3) | 368 | 1.000 | `\alpha^{(p)} \wedge \beta^{(q)}=(-1)^{p q} \beta^{(q)} \wedge \alpha^{(p)},` | $\alpha^{(p)} \wedge \beta^{(q)}=(-1)^{p q} \beta^{(q)} \wedge \alpha^{(p)}$, | $\alpha^{(p)} \wedge \beta^{(q)}=(-1)^{p q} \beta^{(q)} \wedge \alpha^{(p)}$, |

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| mielke-geometrodynamics_EQ1094 (B.4) | 368 | 1.000 | D(M):=\sum_{p=0}^{n} \wedge^{p} T^{*}(M) | $D(M) := \sum_{p=0}^{n} \wedge^{p} T^{*}(M)$ | $D(M) := \sum_{p=0}^{n} \wedge^{p} T^{*}(M)$ |
| mielke-geometrodynamics_EQ1095 (B.5) | 369 | 1.000 | d\left(\alpha^{(p)} \wedge \beta^{(q)}\right)=d \alpha^{(p)} \wedge \beta^{(q)}+(-1)^{p} \alpha^{(p)} \wedge d \beta^{(q)} | $d\left(\alpha^{(p)} \wedge \beta^{(q)}\right) = d\alpha^{(p)} \wedge \beta^{(q)} + (-1)^{p} \alpha^{(p)} \wedge d\beta^{(q)}$ | $d(\alpha^{(p)} \wedge \beta^{(q)}) = d\alpha^{(p)} \wedge \beta^{(q)} + (-1)^{p} \alpha^{(p)} \wedge d\beta^{(q)}$ |
| mielke-geometrodynamics_EQ1097 (B.7) | 369 | 1.000 | \sigma: M \rightarrow N, \quad \sigma \in \mathscr{D}(M) | $\sigma : M \rightarrow N, \quad \sigma \in \mathscr{D}(M)$ | $\sigma : M \rightarrow N, \quad \sigma \in \mathscr{D}(M)$ |
| mielke-geometrodynamics_EQ1098 (B.8) | 369 | 1.000 | \sigma_{*}: \wedge^{p} T^{*}(N) \rightarrow \wedge^{p} T^{*}(M) | $\sigma_{*} : \wedge^{p} T^{*}(N) \rightarrow \wedge^{p} T^{*}(M)$ | $\sigma_{*} : \wedge^{p} T^{*}(N) \rightarrow \wedge^{p} T^{*}(M)$ |
| mielke-geometrodynamics_EQ1103 (B.15) | 370 | 1.000 | { }^{* *} \alpha^{(p)}=(-1)^{p(n+1)+s} \alpha^{(p)} . | ${}^{**}\alpha^{(p)} = (-1)^{p(n+1)+s} \alpha^{(p)}.$ | ${}^{**}\alpha^{(p)} = (-1)^{p(n+1)+s} \alpha^{(p)}.$ |
| mielke-geometrodynamics_EQ1105 (B.17) | 370 | 1.000 | (\alpha, \beta):=\int_{M} \alpha^{(p)} \wedge^{*} \beta^{(p)}=(\beta, \alpha) | $(\alpha, \beta) := \int_{M} \alpha^{(p)} \wedge^{*} \beta^{(p)} = (\beta, \alpha)$ | $(\alpha, \beta) := \int_{M} \alpha^{(p)} \wedge^{*} \beta^{(p)} = (\beta, \alpha)$ |
| mielke-geometrodynamics_EQ1107 (B.19) | 370 | 1.000 | \square \alpha^{(p)}:=d \delta \alpha^{(p)}+\delta d \alpha^{(p)} . | $\square \alpha^{(p)} := d\delta\alpha^{(p)} + \delta d\alpha^{(p)}.$ | $\square \alpha^{(p)} := d\delta\alpha^{(p)} + \delta d\alpha^{(p)}.$ |
| mielke-geometrodynamics_EQ1108 (B.20) | 371 | 1.000 | \begin{aligned} (\alpha, \square \alpha) & =(\alpha, d \delta \alpha)+(\alpha, \delta d \alpha) \\ & =( \delta \alpha, \delta \alpha)+(d \alpha, d \alpha) . \end{aligned} | $\begin{aligned} (\alpha, \square \alpha) & =(\alpha, d \delta \alpha)+(\alpha, \delta d \alpha) \\ & =( \delta \alpha, \delta \alpha)+(d \alpha, d \alpha) . \end{aligned}$ | $\begin{aligned} (\alpha, \square \alpha) & =(\alpha, d \delta \alpha)+(\alpha, \delta d \alpha) \\ & =( \delta \alpha, \delta \alpha)+(d \alpha, d \alpha) . \end{aligned}$ |
| mielke-geometrodynamics_EQ1109 (B.21) | 371 | 1.000 | d \alpha=0 . | $d\alpha = 0.$ | $d\alpha = 0.$ |
| mielke-geometrodynamics_EQ1111 (B.23) | 371 | 1.000 | \beta^{(p)}=d \alpha^{(p-1)} \in C^{\infty}(B(M)) | $\beta^{(p)} = d\alpha^{(p-1)} \in C^{\infty}(B(M))$ | $\beta^{(p)} = d\alpha^{(p-1)} \in C^{\infty}(B(M))$ |
| mielke-geometrodynamics_EQ1112 (B.24) | 371 | 1.000 | H(M):=Z(M) / B(M) | $H(M) := Z(M)/B(M)$ | $H(M) := Z(M)/B(M)$ |
| mielke-geometrodynamics_EQ1113 (B.25) | 371 | 1.000 | H(M)=\sum_{p=0}^{n} H^{p}(M):=\sum_{p=0}^{n} Z^{p}(M) / B^{p}(M) . | $H(M) = \sum_{p=0}^{n} H^{p}(M) := \sum_{p=0}^{n} Z^{p}(M)/B^{p}(M).$ | $H(M) = \sum_{p=0}^{n} H^{p}(M) := \sum_{p=0}^{n} Z^{p}(M)/B^{p}(M).$ |
| mielke-geometrodynamics_EQ1115 (B.27) | 371 | 1.000 | H^{n}(M)=\wedge^{n} T^{*}(M) / B^{n}(M) . | $H^{n}(M) = \wedge^{n} T^{*}(M)/B^{n}(M).$ | $H^{n}(M) = \wedge^{n} T^{*}(M)/B^{n}(M).$ |
| mielke-geometrodynamics_EQ1116 (B.28) | 371 | 1.000 | H^{0}(M)=Z^{0}(M) | $H^{0}(M) = Z^{0}(M)$ | $H^{0}(M) = Z^{0}(M)$ |
| mielke-geometrodynamics_EQ1117 (B.29) | 372 | 1.000 | H^{0}(M) \approx \mathbb{R} | $H^{0}(M) \approx \mathbb{R}$ | $H^{0}(M) \approx \mathbb{R}$ |
| mielke-geometrodynamics_EQ1118 (B.30) | 372 | 1.000 | b_{p}:=\operatorname{dim} H^{p}(M) | $b_{p} := \operatorname{dim} H^{p}(M)$ | $b_{p} := \operatorname{dim} H^{p}(M)$ |
| mielke-geometrodynamics_EQ1119 (B.31) | 372 | 1.000 | \mathrm{f}_{\mathrm{M}}(t)=\sum_{p=0}^{n} b_{p} t^{p} | $\mathrm{f}_{\mathrm{M}}(t) = \sum_{p=0}^{n} b_{p} t^{p}$ | $\mathrm{f}_{\mathrm{M}}(t) = \sum_{p=0}^{n} b_{p} t^{p},$ |
| mielke-geometrodynamics_EQ1120 (B.32) | 372 | 1.000 | \chi(M):=\mathrm{f}_{\mathrm{M}}(-1)= \sum_{p=0}^{n}(-1)^{p} b_{p}, | $\chi(M) := \mathrm{f}_{\mathrm{M}}(-1) = \sum_{p=0}^{n}(-1)^{p} b_{p},$ | $\chi(M) := \mathrm{f}_{\mathrm{M}}(-1) = \sum_{p=0}^{n}(-1)^{p} b_{p},$ |
| mielke-geometrodynamics_EQ1121 (B.33) | 372 | 1.000 | \mathrm{H}^{0}\left(S^{n}\right)=H^{n}\left(S^{n}\right) \approx \mathbb{R} | $\mathrm{H}^{0}\left(S^{n}\right) = H^{n}\left(S^{n}\right) \approx \mathbb{R}$ | $\mathrm{H}^{0}\left(S^{n}\right) = H^{n}\left(S^{n}\right) \approx \mathbb{R}$ |
| mielke-geometrodynamics_EQ1123 (B.35) | 372 | 1.000 | \mathrm{f}_{S^{n}}(t)=1+t^{n}, | $\mathrm{f}_{S^{n}}(t) = 1+t^{n},$ | $\mathrm{f}_{S^{n}}(t) = 1+t^{n},$ |

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| mielke-geometrodynamics_EQ1124 (B.36) | 372 | 1.000 | `\chi\left(S^{n}\right)=\left\{\begin{array}{l} 0 \text { for } n=2 k+1, \\ 2 \text { for } n=2 k, \end{array} \right.` | $\chi\left(S^{n}\right)=\left\{\begin{array}{l} 0 \text { for } n=2 k+1, \\ 2 \text { for } n=2 k, \end{array} \right.$ | $\chi\left(S^{n}\right)=\left\{\begin{array}{l} 0 \text { for } n=2 k+1, \\ 2 \text { for } n=2 k, \end{array} \right.$ |
| mielke-geometrodynamics_EQ1125 (B.37) | 372 | 1.000 | `\Delta_{p}:=\left\{x \in E^{n} \mid x=\sum_{i=0}^{p} \lambda^{i} \eta_{i}, \lambda^{i} \geq 0, \sum_{i=0}^{p} \lambda^{i}=1\right\} .` | $\Delta_{p}:=\left\{x \in E^{n} \mid x=\sum_{i=0}^{p} \lambda^{i} \eta_{i}, \lambda^{i} \geq 0, \sum_{i=0}^{p} \lambda^{i}=1\right\} .$ | $\Delta_{p}:=\left\{x \in E^{n} \mid x=\sum_{i=0}^{p} \lambda^{i} \eta_{i}, \lambda^{i} \geq 0, \sum_{i=0}^{p} \lambda^{i}=1\right\} .$ |
| mielke-geometrodynamics_EQ1127 (B.39) | 373 | 1.000 | `\partial c=\sum_{i=0}^{p}(-1)^{i} c\left(\sum_{j=0}^{i-1} \lambda^{j} \eta_{j}+\sum_{j=i}^{p-1} \lambda^{j} \eta_{j+1}\right) .` | $\partial c=\sum_{i=0}^{p}(-1)^{i} c\left(\sum_{j=0}^{i-1} \lambda^{j} \eta_{j}+\sum_{j=i}^{p-1} \lambda^{j} \eta_{j+1}\right) .$ | $\partial c=\sum_{i=0}^{p}(-1)^{i} c\left(\sum_{j=0}^{i-1} \lambda^{j} \eta_{j}+\sum_{j=i}^{p-1} \lambda^{j} \eta_{j+1}\right) .$ |
| mielke-geometrodynamics_EQ1129 (B.41) | 373 | 1.000 | `H_{\mathrm{p}}(M, \mathbb{R}):=Z_{\mathrm{p}}(M, \mathbb{R}) / B_{\mathrm{p}}(M, \mathbb{R})` | $H_{\mathrm{p}}(M, \mathbb{R}):=Z_{\mathrm{p}}(M, \mathbb{R}) / B_{\mathrm{p}}(M, \mathbb{R})$ | $H_{\mathrm{p}}(M, \mathbb{R}):=Z_{\mathrm{p}}(M, \mathbb{R}) / B_{\mathrm{p}}(M, \mathbb{R})$ |
| mielke-geometrodynamics_EQ1130 (B.42) | 373 | 1.000 | `\int_{c_{p+1}} d \alpha^{(p)}=\int_{\partial c_{p+1}} \alpha^{(p)}` | $\int_{c_{p+1}} d \alpha^{(p)}=\int_{\partial c_{p+1}} \alpha^{(p)}$ | $\int_{c_{p+1}} d \alpha^{(p)}=\int_{\partial c_{p+1}} \alpha^{(p)}$ |
| mielke-geometrodynamics_EQ1132 (B.44) | 373 | 1.000 | `\langle d \alpha, c\rangle_{\mathrm{M}}=\langle\alpha, \partial c\rangle_{\mathrm{M}}` | $\langle d \alpha, c\rangle_{\mathrm{M}}=\langle\alpha, \partial c\rangle_{\mathrm{M}}$ | $\langle d \alpha, c\rangle_{\mathrm{M}}=\langle\alpha, \partial c\rangle_{\mathrm{M}}$ |
| mielke-geometrodynamics_EQ1133 (C.1) | 375 | 1.000 | `I_{j}:=\left.\frac{\partial g(\xi)}{\partial \xi^{j}} \right\|_{g=e} \in T_{e}(G) \approx \mathfrak{g}` | $I_{j}:=\left.\frac{\partial g(\xi)}{\partial \xi^{j}}\right\|_{g=e} \in T_{e}(G) \approx \mathfrak{g}$ | $I_{j}:=\left.\frac{\partial g(\xi)}{\partial \xi^{j}}\right\|_{g=e} \in T_{e}(G) \approx \mathfrak{g}$ |
| mielke-geometrodynamics_EQ1138 (C.6) | 376 | 1.000 | `[\mathrm{AB}]:=\mathrm{A}^{\mathrm{i}} \mathrm{~B}^{ \mathrm{j}} \mathrm{c}_{\mathrm{ij}}^{\mathrm{k}} \mathrm{I}_{\mathrm{k}} .` | $[\mathrm{AB}]:=\mathrm{A}^{\mathrm{i}} \mathrm{~B}^{\mathrm{j}} \mathrm{c}_{\mathrm{ij}}^{\mathrm{k}} \mathrm{I}_{\mathrm{k}} .$ | $[\mathrm{AB}]:=\mathrm{A}^{\mathrm{i}} \mathrm{~B}^{\mathrm{j}} \mathrm{c}_{\mathrm{ij}}^{\mathrm{k}} \mathrm{I}_{\mathrm{k}} .$ |
| mielke-geometrodynamics_EQ1139 (C.7) | 376 | 1.000 | `\rho_{A}^{C}\left(g_{1}\right) \rho_{C}^{B}\left(g_{2} \right)=\rho_{A}^{B}\left(g_{1} g_{2}\right)` | $\rho_{A}^{C}\left(g_{1}\right) \rho_{C}^{B}\left(g_{2}\right)=\rho_{A}^{B}\left(g_{1} g_{2}\right)$ | $\rho_{A}^{C}\left(g_{1}\right) \rho_{C}^{B}\left(g_{2}\right)=\rho_{A}^{B}\left(g_{1} g_{2}\right)$ |
| mielke-geometrodynamics_EQ1140 (C.8) | 376 | 1.000 | `[A, B] \longrightarrow \rho([A, B])=[\rho(A), \rho(B)] .` | $[A, B] \longrightarrow \rho([A, B])=[\rho(A), \rho(B)] .$ | $[A, B] \longrightarrow \rho([A, B])=[\rho(A), \rho(B)] .$ |
| mielke-geometrodynamics_EQ1141 (C.9) | 376 | 1.000 | `\operatorname{Ad} A(B):=[A, B] ; \quad A, B \in \mathfrak{g},` | $\operatorname{Ad} A(B):=[A, B] ; \quad A, B \in \mathfrak{g},$ | $\operatorname{Ad} A(B):=[A, B] ; \quad A, B \in \mathfrak{g},$ |
| mielke-geometrodynamics_EQ1142 (C.10) | 376 | 1.000 | `(\operatorname{Ad} A)_{j}{ }^{k}=c_{i j}{ }^{k} A^{i} .` | $(\operatorname{Ad} A)_{j}{ }^{k}=c_{i j}{ }^{k} A^{i} .$ | $(\operatorname{Ad} A)_{j}{ }^{k}=c_{i j}{ }^{k} A^{i} .$ |
| mielke-geometrodynamics_EQ1144 (C.12) | 376 | 1.000 | `(A, B)=2 N \operatorname{Tr}(A B)-2 \operatorname{Tr}(A) \operatorname{Tr}(B)` | $(A, B)=2 N \operatorname{Tr}(A B)-2 \operatorname{Tr}(A) \operatorname{Tr}(B)$ | $(A, B)=2 N \operatorname{Tr}(A B)-2 \operatorname{Tr}(A) \operatorname{Tr}(B)$ |
| mielke-geometrodynamics_EQ1146 (C.14) | 377 | 1.000 | `g=\exp ^{\left(-\frac{i}{2} \xi^{j} \lambda_{j}\right)} \in S U(N), j=1, \ldots, N^{2}-1 .` | $g=\exp ^{\left(-\frac{i}{2} \xi^{j} \lambda_{j}\right)} \in S U(N), j=1, \ldots, N^{2}-1 .$ | $g=\exp ^{\left(-\frac{i}{2} \xi^{j} \lambda_{j}\right)} \in S U(N), j=1, \ldots, N^{2}-1 .$ |
| mielke-geometrodynamics_EQ1148 (C.17) | 377 | 1.000 | `\lambda_{i} \lambda_{j}=\frac{2}{N} \delta_{i j}+ \left(d_{i j}^{k}+i f_{i j}^{k}\right) \lambda_{k} .` | $\lambda_{i} \lambda_{j}=\frac{2}{N} \delta_{i j}+\left(d_{i j}^{k}+i f_{i j}^{k}\right) \lambda_{k} .$ | $\lambda_{i} \lambda_{j}=\frac{2}{N} \delta_{i j}+\left(d_{i j}^{k}+i f_{i j}^{k}\right) \lambda_{k} .$ |
| mielke-geometrodynamics_EQ1149 (C.18) | 377 | 1.000 | `\operatorname{Tr}\left(\lambda_{i} \lambda_{j}\right)=2 \delta_{i j} .` | $\operatorname{Tr}\left(\lambda_{i} \lambda_{j}\right)=2 \delta_{i j} .$ | $\operatorname{Tr}\left(\lambda_{i} \lambda_{j}\right)=2 \delta_{i j} .$ |