Тестовый прогон: Было:

$$\phi_{1}(-p) \times \delta_{12}[k] \times D_{1}^{A}D_{1A}\bar{D}_{4\dot{a}}\bar{D}_{4\dot{a}}^{\dot{a}}\delta_{14}[p-k] \times \bar{D}_{2\dot{b}}\bar{D}_{2}^{\dot{b}}D_{3}^{B}D_{3B}\delta_{23}[l] \times D_{2}^{C}D_{2C}\bar{D}_{3\dot{c}}\bar{D}_{3}^{\dot{c}}\delta_{23}[k-l] \times \delta_{34}[k] \times \bar{\phi}_{4}(-p)$$

Выравниваем индекс у 0-ого слагаемого 2-ого, 3-ого и 4-ого сомножителей (дельта-функций)

$$-\phi_{1}(-p)\times\delta_{12}[k]\times D_{1}^{A}D_{1A}\bar{D}_{1}^{\dot{a}}\bar{D}_{1\dot{a}}\delta_{14}[p-k]\times\bar{D}_{2\dot{b}}\bar{D}_{2}^{\dot{b}}D_{2B}D_{2}^{B}\delta_{23}[l]\times D_{2}^{C}D_{2C}\bar{D}_{2}^{\dot{c}}\bar{D}_{2\dot{c}}\delta_{23}[k-l]\times\delta_{34}[k]\times\bar{\phi}_{4}(-p)$$

Опускаем индексы у 0-ого слагаемого

$$-\epsilon^{\dot{c},\dot{f}}\epsilon^{C,F}\epsilon^{B,E}\epsilon^{\dot{b},\dot{e}}\epsilon^{\dot{a},\dot{d}}\epsilon^{A,D}\phi_{1}(-p)\times\delta_{12}[k]\times D_{1D}D_{1A}\bar{D}_{1\dot{d}}\bar{D}_{1\dot{d}}\delta_{14}[p-k]\times\bar{D}_{2\dot{b}}\bar{D}_{2\dot{e}}D_{2B}D_{2E}\delta_{23}[l]\times D_{2F}D_{2C}\bar{D}_{2\dot{f}}\bar{D}_{2\dot{c}}\delta_{23}[k-l]\times\delta_{34}[k]\times\bar{\phi}_{4}(-p)$$

Избавляемся от голых дельта-функций good good nothing to_d on othing to_d on thing to_d on thing to_d or to_d on the second good good nothing to_d or to_d or t

$$-\epsilon^{\dot{c},\dot{f}}\epsilon^{C,F}\epsilon^{B,E}\epsilon^{\dot{b},\dot{e}}\epsilon^{\dot{a},\dot{d}}\epsilon^{A,D}\phi_{1}(-p)\times D_{1D}D_{1A}\bar{D}_{1\dot{d}}\bar{D}_{1\dot{a}}\delta_{13}[p-k]\times\bar{D}_{1\dot{b}}\bar{D}_{1\dot{e}}D_{1B}D_{1E}\delta_{13}[l]\times D_{1F}D_{1C}\bar{D}_{1\dot{f}}\bar{D}_{1\dot{c}}\delta_{13}[k-l]\times\bar{D}_{1\dot{b}}\bar{D}_{1\dot{e}}D_{1\dot{b}}D_{1\dot{e}}D_{1\dot{b}}D_{1\dot{e}}D_{1\dot$$

Скоммутируем производные у 0-ого слагаемого 2-его сомножителя (дельта-функций)

$$-\epsilon^{\dot{c},\dot{f}}\epsilon^{C,F}\epsilon^{B,E}\epsilon^{\dot{b},\dot{e}}\epsilon^{\dot{a},\dot{d}}\epsilon^{A,D}\phi_{1}(-p)\times D_{1D}D_{1A}\bar{D}_{1\dot{d}}\bar{D}_{1\dot{a}}\delta_{13}[p-k]\times D_{1B}D_{1E}\bar{D}_{1\dot{b}}\bar{D}_{1\dot{e}}\delta_{13}[l]\times D_{1F}D_{1C}\bar{D}_{1\dot{f}}\bar{D}_{1\dot{c}}\delta_{13}[k-l]\times \bar{D}_{3}(-p)-$$

$$-2\sigma_{E\dot{b}}^{a}(l)_{a}\epsilon^{\dot{c},\dot{f}}\epsilon^{C,F}\epsilon^{B,E}\epsilon^{\dot{b},\dot{e}}\epsilon^{\dot{a},\dot{d}}\epsilon^{A,D}\phi_{1}(-p)\times D_{1D}D_{1A}\bar{D}_{1\dot{d}}\bar{D}_{1\dot{a}}\delta_{13}[p-k]\times D_{1B}\bar{D}_{1\dot{e}}\delta_{13}[l]\times D_{1F}D_{1C}\bar{D}_{1\dot{f}}\bar{D}_{1\dot{c}}\delta_{13}[k-l]\times \bar{\Phi}_{3}(-p)+$$

$$+2\sigma_{B\dot{b}}^{a}(l)_{a}\epsilon^{\dot{c},\dot{f}}\epsilon^{C,F}\epsilon^{B,E}\epsilon^{\dot{b},\dot{e}}\epsilon^{\dot{a},\dot{d}}\epsilon^{A,D}\phi_{1}(-p)\times D_{1D}D_{1A}\bar{D}_{1\dot{d}}\bar{D}_{1\dot{a}}\delta_{13}[p-k]\times D_{1E}\bar{D}_{1\dot{e}}\delta_{13}[l]\times D_{1F}D_{1C}\bar{D}_{1\dot{f}}\bar{D}_{1\dot{c}}\delta_{13}[k-l]\times \bar{\Phi}_{3}(-p)+$$

$$+2\sigma_{E\dot{e}}^{a}(l)_{a}\epsilon^{\dot{c},\dot{f}}\epsilon^{C,F}\epsilon^{B,E}\epsilon^{\dot{b},\dot{e}}\epsilon^{\dot{a},\dot{d}}\epsilon^{A,D}\phi_{1}(-p)\times D_{1D}D_{1A}\bar{D}_{1\dot{d}}\bar{D}_{1\dot{a}}\delta_{13}[p-k]\times D_{1B}\bar{D}_{1\dot{b}}\delta_{13}[l]\times D_{1F}D_{1C}\bar{D}_{1\dot{f}}\bar{D}_{1\dot{c}}\delta_{13}[k-l]\times \bar{\Phi}_{3}(-p)+$$

$$+4\sigma^{b}_{B\dot{b}}(l)_{b}\sigma^{a}_{E\dot{e}}(l)_{a}\epsilon^{\dot{c},\dot{f}}\epsilon^{C,F}\epsilon^{B,E}\epsilon^{\dot{b},\dot{e}}\epsilon^{\dot{a},\dot{d}}\epsilon^{A,D}\phi_{1}(-p)\times D_{1D}D_{1A}\bar{D}_{1\dot{d}}\bar{D}_{1\dot{d}}\delta_{13}[p-k]\times\delta_{13}[l]\times D_{1F}D_{1C}\bar{D}_{1\dot{f}}\bar{D}_{1\dot{c}}\delta_{13}[k-l]\times\delta_{12}(-p)-$$

$$-2\sigma_{B\dot{e}}^{a}(l)_{a}\epsilon^{\dot{c},\dot{f}}\epsilon^{C,F}\epsilon^{B,E}\epsilon^{\dot{b},\dot{e}}\epsilon^{\dot{a},\dot{d}}\epsilon^{A,D}\phi_{1}(-p)\times D_{1D}D_{1A}\bar{D}_{1\dot{d}}\bar{D}_{1\dot{a}}\delta_{13}[p-k]\times D_{1E}\bar{D}_{1\dot{b}}\delta_{13}[l]\times D_{1F}D_{1C}\bar{D}_{1\dot{f}}\bar{D}_{1\dot{c}}\delta_{13}[k-l]\times \bar{D}_{3}(-p)-$$

$$-4\sigma^b_{E\dot{b}}(l)_b\sigma^a_{B\dot{e}}(l)_a\epsilon^{\dot{c},\dot{f}}\epsilon^{C,F}\epsilon^{B,E}\epsilon^{\dot{b},\dot{e}}\epsilon^{\dot{a},\dot{d}}\epsilon^{A,D}\phi_1(-p)\times D_{1D}D_{1A}\bar{D}_{1\dot{d}}\bar{D}_{1\dot{d}}\delta_{13}[p-k]\times\delta_{13}[l]\times D_{1F}D_{1C}\bar{D}_{1\dot{f}}\bar{D}_{1\dot{c}}\delta_{13}[k-l]\times\bar{\phi}_3(-p)$$

Запускаем ЦИКЛ WORKOUT-ов дельта-функций:

$$-16\epsilon_{\dot{c},\dot{f}}\epsilon_{F,C}\epsilon_{\dot{e},\dot{b}}\epsilon_{B,E}\epsilon^{\dot{c},\dot{f}}\epsilon^{C,F}\epsilon^{B,E}\epsilon^{\dot{b},\dot{e}}\epsilon^{\dot{a},\dot{d}}\epsilon^{A,D}\bar{D}_{1\dot{a}}\bar{D}_{1\dot{a}}D_{1A}D_{1D}\phi_{1}(-p)\times\bar{\phi}_{1}(-p)+\\ +32\epsilon_{\dot{c},\dot{f}}\epsilon_{F,C}\epsilon_{\dot{a},\dot{d}}\epsilon_{D,A}\sigma_{E\dot{b}}^{a}(l)_{a}\epsilon^{\dot{c},\dot{f}}\epsilon^{C,F}\epsilon^{B,E}\epsilon^{\dot{b},\dot{e}}\epsilon^{\dot{a},\dot{d}}\epsilon^{A,D}\bar{D}_{1\dot{e}}D_{1B}\phi_{1}(-p)\times\bar{\phi}_{1}(-p)-\\ -32\epsilon_{\dot{c},\dot{f}}\epsilon_{F,C}\epsilon_{\dot{a},\dot{d}}\epsilon_{D,A}\sigma_{B\dot{b}}^{a}(l)_{a}\epsilon^{\dot{c},\dot{f}}\epsilon^{C,F}\epsilon^{B,E}\epsilon^{\dot{b},\dot{e}}\epsilon^{\dot{a},\dot{d}}\epsilon^{A,D}\bar{D}_{1\dot{e}}D_{1E}\phi_{1}(-p)\times\bar{\phi}_{1}(-p)-\\ -32\epsilon_{\dot{c},\dot{f}}\epsilon_{F,C}\epsilon_{\dot{a},\dot{d}}\epsilon_{D,A}\sigma_{B\dot{b}}^{a}(l)_{a}\epsilon^{\dot{c},\dot{f}}\epsilon^{C,F}\epsilon^{B,E}\epsilon^{\dot{b},\dot{e}}\epsilon^{\dot{a},\dot{d}}\epsilon^{A,D}\bar{D}_{1\dot{b}}D_{1B}\phi_{1}(-p)\times\bar{\phi}_{1}(-p)+\\ +64\epsilon_{\dot{c},\dot{f}}\epsilon_{F,C}\epsilon_{\dot{a},\dot{d}}\epsilon_{D,A}\sigma_{B\dot{b}}^{b}(l)_{b}\sigma_{E\dot{e}}^{a}(l)_{a}\epsilon^{\dot{c},\dot{f}}\epsilon^{C,F}\epsilon^{B,E}\epsilon^{\dot{b},\dot{e}}\epsilon^{\dot{a},\dot{d}}\epsilon^{A,D}\bar{D}_{1\dot{b}}D_{1E}\phi_{1}(-p)\times\bar{\phi}_{1}(-p)+\\ +32\epsilon_{\dot{c},\dot{f}}\epsilon_{F,C}\epsilon_{\dot{a},\dot{d}}\epsilon_{D,A}\sigma_{B\dot{e}}^{a}(l)_{a}\epsilon^{\dot{c},\dot{f}}\epsilon^{C,F}\epsilon^{B,E}\epsilon^{\dot{b},\dot{e}}\epsilon^{\dot{a},\dot{d}}\epsilon^{A,D}\bar{D}_{1\dot{b}}D_{1E}\phi_{1}(-p)\times\bar{\phi}_{1}(-p)-\\ -64\epsilon_{\dot{c},\dot{f}}\epsilon_{F,C}\epsilon_{\dot{a},\dot{d}}\epsilon_{D,A}\sigma_{B\dot{e}}^{b}(l)_{b}\sigma_{B\dot{e}}^{a}(l)_{a}\epsilon^{\dot{c},\dot{f}}\epsilon^{C,F}\epsilon^{B,E}\epsilon^{\dot{b},\dot{e}}\epsilon^{\dot{a},\dot{d}}\epsilon^{A,D}\bar{D}_{1\dot{b}}D_{1E}\phi_{1}(-p)\times\bar{\phi}_{1}(-p)-\\ -64\epsilon_{\dot{c},\dot{f}}\epsilon_{F,C}\epsilon_{\dot{a},\dot{d}}\epsilon_{D,A}\sigma_{E\dot{b}}^{b}(l)_{b}\sigma_{B\dot{e}}^{a}(l)_{a}\epsilon^{\dot{c},\dot{f}}\epsilon^{C,F}\epsilon^{B,E}\epsilon^{\dot{b},\dot{e}}\epsilon^{\dot{a},\dot{d}}\epsilon^{A,D}\bar{\phi}_{1}(-p)\times\bar{\phi}_{1}(-p)$$

Запускаем ЦИКЛ WORKOUT-ов полей:

$$64\sigma_{A\dot{a}}^{b}(-p)_{b}\sigma_{D\dot{d}}^{a}(-p)_{a}\epsilon_{\dot{c},\dot{f}}\epsilon_{F,C}\epsilon_{\dot{e},\dot{b}}\epsilon_{B,E}\epsilon^{\dot{c},\dot{f}}\epsilon^{C,F}\epsilon^{B,E}\epsilon^{\dot{b},\dot{e}}\epsilon^{\dot{a},\dot{d}}\epsilon^{A,D}\phi_{1}(-p)\times\bar{\phi}_{1}(-p)-$$

$$-64\sigma_{D\dot{a}}^{b}(-p)_{b}\sigma_{A\dot{d}}^{a}(-p)_{a}\epsilon_{\dot{c},\dot{f}}\epsilon_{F,C}\epsilon_{\dot{e},\dot{b}}\epsilon_{B,E}\epsilon^{\dot{c},\dot{f}}\epsilon^{C,F}\epsilon^{B,E}\epsilon^{\dot{b},\dot{e}}\epsilon^{\dot{a},\dot{d}}\epsilon^{A,D}\phi_{1}(-p)\times\bar{\phi}_{1}(-p)-$$

$$-64\sigma_{B\dot{e}}^{b}(-p)_{b}\epsilon_{\dot{c},\dot{f}}\epsilon_{F,C}\epsilon_{\dot{a},\dot{d}}\epsilon_{D,A}\sigma_{E\dot{b}}^{a}(l)_{a}\epsilon^{\dot{c},\dot{f}}\epsilon^{C,F}\epsilon^{B,E}\epsilon^{\dot{b},\dot{e}}\epsilon^{\dot{a},\dot{d}}\epsilon^{A,D}\phi_{1}(-p)\times\bar{\phi}_{1}(-p)+$$

$$+64\sigma_{E\dot{e}}^{b}(-p)_{b}\epsilon_{\dot{c},\dot{f}}\epsilon_{F,C}\epsilon_{\dot{a},\dot{d}}\epsilon_{D,A}\sigma_{B\dot{b}}^{a}(l)_{a}\epsilon^{\dot{c},\dot{f}}\epsilon^{C,F}\epsilon^{B,E}\epsilon^{\dot{b},\dot{e}}\epsilon^{\dot{a},\dot{d}}\epsilon^{A,D}\phi_{1}(-p)\times\bar{\phi}_{1}(-p)+$$

$$+64\sigma_{B\dot{b}}^{b}(-p)_{b}\epsilon_{\dot{c},\dot{f}}\epsilon_{F,C}\epsilon_{\dot{a},\dot{d}}\epsilon_{D,A}\sigma_{E\dot{e}}^{a}(l)_{a}\epsilon^{\dot{c},\dot{f}}\epsilon^{C,F}\epsilon^{B,E}\epsilon^{\dot{b},\dot{e}}\epsilon^{\dot{a},\dot{d}}\epsilon^{A,D}\phi_{1}(-p)\times\bar{\phi}_{1}(-p)+$$

$$+64\epsilon_{\dot{c},\dot{f}}\epsilon_{F,C}\epsilon_{\dot{a},\dot{d}}\epsilon_{D,A}\sigma_{B\dot{b}}^{b}(l)_{b}\sigma_{E\dot{e}}^{a}(l)_{a}\epsilon^{\dot{c},\dot{f}}\epsilon^{C,F}\epsilon^{B,E}\epsilon^{\dot{b},\dot{e}}\epsilon^{\dot{a},\dot{d}}\epsilon^{A,D}\phi_{1}(-p)\times\bar{\phi}_{1}(-p)-$$

$$-64\sigma_{E\dot{b}}^{b}(-p)_{b}\epsilon_{\dot{c},\dot{f}}\epsilon_{F,C}\epsilon_{\dot{a},\dot{d}}\epsilon_{D,A}\sigma_{B\dot{e}}^{a}(l)_{a}\epsilon^{\dot{c},\dot{f}}\epsilon^{C,F}\epsilon^{B,E}\epsilon^{\dot{b},\dot{e}}\epsilon^{\dot{a},\dot{d}}\epsilon^{A,D}\phi_{1}(-p)\times\bar{\phi}_{1}(-p)-$$

$$-64\epsilon_{\dot{c},\dot{f}}\epsilon_{F,C}\epsilon_{\dot{a},\dot{d}}\epsilon_{D,A}\sigma_{B\dot{e}}^{b}(l)_{b}\sigma_{B\dot{e}}^{a}(l)_{a}\epsilon^{\dot{c},\dot{f}}\epsilon^{C,F}\epsilon^{B,E}\epsilon^{\dot{b},\dot{e}}\epsilon^{\dot{a},\dot{d}}\epsilon^{A,D}\phi_{1}(-p)\times\bar{\phi}_{1}(-p)-$$

$$-64\epsilon_{\dot{c},\dot{f}}\epsilon_{F,C}\epsilon_{\dot{a},\dot{d}}\epsilon_{D,A}\sigma_{B\dot{e}}^{b}(l)_{b}\sigma_{B\dot{e}}^{a}(l)_{a}\epsilon^{\dot{c},\dot{f}}\epsilon^{C,F}\epsilon^{B,E}\epsilon^{\dot{b},\dot{e}}\epsilon^{\dot{a},\dot{d}}\epsilon^{A,D}\phi_{1}(-p)\times\bar{\phi}_{1}(-p)-$$

Свернем все индексы (эпсилоны с верхними и нижними, а также кронекеры):

$$1024\sigma_{A\dot{a}}^{b}(-p)_{b}\sigma_{D\dot{d}}^{a}(-p)_{a}\epsilon^{\dot{a},\dot{d}}\epsilon^{A,D}\phi_{1}(-p)\times\bar{\phi}_{1}(-p)-\\-1024\sigma_{D\dot{a}}^{b}(-p)_{b}\sigma_{A\dot{d}}^{a}(-p)_{a}\epsilon^{\dot{a},\dot{d}}\epsilon^{A,D}\phi_{1}(-p)\times\bar{\phi}_{1}(-p)-\\-1024\sigma_{B\dot{e}}^{b}(-p)_{b}\sigma_{E\dot{b}}^{a}(l)_{a}\epsilon^{B,E}\epsilon^{\dot{b},\dot{e}}\phi_{1}(-p)\times\bar{\phi}_{1}(-p)+\\+1024\sigma_{E\dot{e}}^{b}(-p)_{b}\sigma_{B\dot{b}}^{a}(l)_{a}\epsilon^{B,E}\epsilon^{\dot{b},\dot{e}}\phi_{1}(-p)\times\bar{\phi}_{1}(-p)+\\+1024\sigma_{B\dot{b}}^{b}(-p)_{b}\sigma_{E\dot{e}}^{a}(l)_{a}\epsilon^{B,E}\epsilon^{\dot{b},\dot{e}}\phi_{1}(-p)\times\bar{\phi}_{1}(-p)+\\+1024\sigma_{B\dot{b}}^{b}(l)_{b}\sigma_{E\dot{e}}^{a}(l)_{a}\epsilon^{B,E}\epsilon^{\dot{b},\dot{e}}\phi_{1}(-p)\times\bar{\phi}_{1}(-p)-\\-1024\sigma_{E\dot{b}}^{b}(-p)_{b}\sigma_{B\dot{e}}^{a}(l)_{a}\epsilon^{B,E}\epsilon^{\dot{b},\dot{e}}\phi_{1}(-p)\times\bar{\phi}_{1}(-p)-\\-1024\sigma_{E\dot{b}}^{b}(l)_{b}\sigma_{B\dot{e}}^{a}(l)_{a}\epsilon^{B,E}\epsilon^{\dot{b},\dot{e}}\phi_{1}(-p)\times\bar{\phi}_{1}(-p)-\\-1024\sigma_{E\dot{b}}^{b}(l)_{b}\sigma_{B\dot{e}}^{a}(l)_{a}\epsilon^{B,E}\epsilon^{\dot{b},\dot{e}}\phi_{1}(-p)\times\bar{\phi}_{1}(-p)$$