Diagrams and algebraic expressions at order 4 in BMBPT

The ADG Dev Team

June 2, 2020

Valid	dia	grams:	568	3
2N va	alid	diagrar	ns:	568

2N canonical diagrams for the energy: 82

2N canonical diagrams for a generic operator only: 48

2N non-canonical diagrams: 438

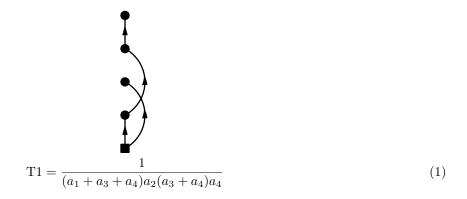
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1 Time-structure diagrams

1.1 Tree diagrams

Time-structure diagram T1:



Resummation power: 4

Number of related Feynman diagrams: 19.

 $Related\ Feynman\ diagrams:\ 90,\ 89,\ 88,\ 87,\ 86,\ 85,\ 84,\ 83,\ 82,\ 81,\ 80,\ 12,\ 11,\ 10,\ 9,\ 8,\ 7,\ 6,\ 5.$

Time-structure diagram T2:

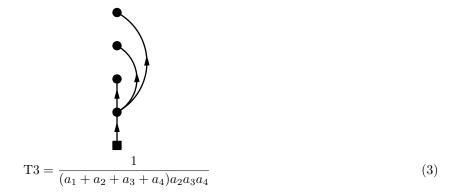


$$T2 = \frac{1}{a_1(a_2 + a_3 + a_4)a_3a_4} \tag{2}$$

Resummation power: 8

Number of related Feynman diagrams: 4. Related Feynman diagrams: 223, 222, 221, 61.

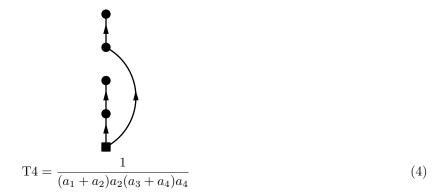
Time-structure diagram T3:



Resummation power: 6

Number of related Feynman diagrams: 4. Related Feynman diagrams: 495, 411, 246, 224.

Time-structure diagram T4:



Resummation power: 6

Number of related Feynman diagrams: 10.

Related Feynman diagrams: 227, 226, 225, 65, 64, 63, 62, 3, 2, 1.

Time-structure diagram T5:

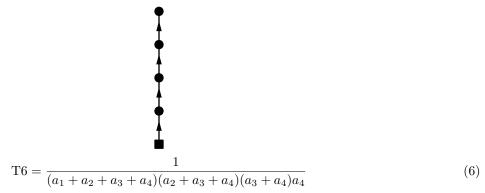
$$T5 = \frac{1}{(a_1 + a_2 + a_3 + a_4)a_2(a_3 + a_4)a_4}$$
 (5)

Resummation power: 3

Number of related Feynman diagrams: 66.

 $\begin{array}{c} \text{Related Feynman diagrams: } 426, \, 425, \, 422, \, 92, \, 75, \, 72, \, 4, \, 500, \, 252, \, 501, \, 499, \, 498, \, 497, \, 496, \, 427, \, 424, \, 423, \\ 421, \, 420, \, 419, \, 418, \, 417, \, 416, \, 415, \, 414, \, 413, \, 412, \, 265, \, 264, \, 263, \, 262, \, 261, \, 260, \, 259, \, 258, \, 257, \, 256, \, 255, \, 254, \, 253, \\ 251, \, 250, \, 249, \, 248, \, 247, \, 229, \, 228, \, 95, \, 94, \, 93, \, 91, \, 79, \, 78, \, 77, \, 76, \, 74, \, 73, \, 71, \, 70, \, 69, \, 68, \, 67, \, 66, \, 15, \, 14, \, 13. \end{array}$

Time-structure diagram T6:

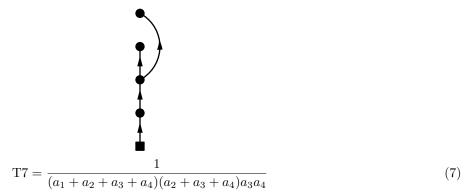


Resummation power: 1

Number of related Feynman diagrams: 205.

Related Feynman diagrams: 477, 476, 473, 462, 460, 458, 239, 233, 232, 188, 187, 186, 185, 181, 180, 178, 177, 172, 169, 161, 153, 144, 143, 142, 141, 138, 134, 132, 127, 42, 40, 36, 29, 27, 25, 23, 20, 544, 542, 538, 537, 534, 527, 520, 518, 368, 367, 364, 363, 362, 361, 360, 359, 354, 353, 336, 311, 310, 304, 303, 302, 300, 297, 296, 292, 291, 545, 543, 539, 536, 535, 533, 532, 531, 530, 529, 528, 526, 521, 519, 517, 516, 515, 514, 513, 512, 511, 510, 509, 508, 507, 506, 478, 475, 474, 472, 471, 470, 469, 468, 467, 466, 465, 464, 463, 461, 459, 457, 371, 370, 369, 366, 365, 352, 351, 350, 349, 348, 347, 346, 345, 344, 343, 342, 341, 340, 339, 338, 337, 335, 334, 333, 332, 331, 330, 329, 328, 327, 326, 325, 324, 323, 322, 312, 309, 308, 307, 306, 305, 301, 299, 298, 295, 294, 293, 290, 238, 237, 236, 190, 189, 179, 176, 175, 174, 173, 171, 170, 168, 167, 166, 165, 164, 163, 162, 160, 159, 158, 157, 156, 154, 152, 140, 139, 137, 136, 135, 133, 131, 130, 129, 128, 39, 38, 37, 35, 34, 33, 28, 26, 24, 22, 21, 19.

Time-structure diagram T7:



Resummation power: 2

Number of related Feynman diagrams: 44.

Related Feynman diagrams: 490, 488, 487, 214, 213, 210, 56, 564, 560, 403, 563, 562, 561, 559, 494, 493, 492, 491, 489, 486, 410, 409, 402, 401, 400, 399, 398, 397, 396, 395, 394, 393, 245, 243, 220, 219, 212, 211, 209, 208, 207, 55, 54, 53.

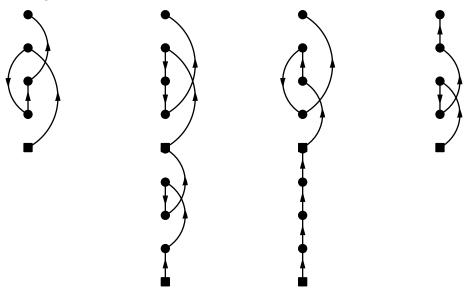
1.2 Non-tree diagrams

Time-structure diagram T8:



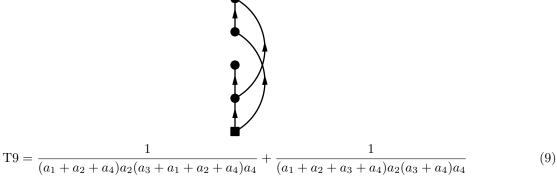
$$T8 = \frac{1}{(a_1 + a_2 + a_4)(a_2 + a_4)(a_3 + a_1 + a_2 + a_4)a_4} + \frac{1}{(a_1 + a_4)(a_2 + a_1 + a_4)(a_3 + a_1 + a_2 + a_4)a_4} + \frac{1}{(a_1 + a_4)(a_2 + a_1 + a_4)(a_3 + a_1 + a_2 + a_4)a_4} + \frac{1}{(a_1 + a_4)(a_2 + a_1 + a_4)(a_3 + a_1 + a_2 + a_4)a_4} + \frac{1}{(a_1 + a_4)(a_2 + a_1 + a_4)(a_3 + a_1 + a_2 + a_4)a_4} + \frac{1}{(a_1 + a_4)(a_2 + a_1 + a_4)(a_3 + a_1 + a_2 + a_4)a_4} + \frac{1}{(a_1 + a_4)(a_2 + a_1 + a_4)(a_3 + a_1 + a_2 + a_4)a_4} + \frac{1}{(a_1 + a_4)(a_2 + a_1 + a_4)(a_3 + a_1 + a_2 + a_4)a_4} + \frac{1}{(a_1 + a_4)(a_2 + a_1 + a_4)(a_3 + a_1 + a_2 + a_4)a_4} + \frac{1}{(a_1 + a_4)(a_2 + a_1 + a_4)(a_3 + a_1 + a_2 + a_4)a_4} + \frac{1}{(a_1 + a_4)(a_2 + a_1 + a_4)(a_3 + a_1 + a_2 + a_4)a_4} + \frac{1}{(a_1 + a_4)(a_2 + a_1 + a_4)(a_3 + a_1 + a_2 + a_4)a_4} + \frac{1}{(a_1 + a_4)(a_2 + a_1 + a_4)(a_3 + a_1 + a_2 + a_4)a_4} + \frac{1}{(a_1 + a_4)(a_2 + a_1 + a_4)(a_3 + a_1 + a_2 + a_4)a_4} + \frac{1}{(a_1 + a_4)(a_2 + a_1 + a_4)(a_3 + a_1 + a_2 + a_4)a_4} + \frac{1}{(a_1 + a_4)(a_2 + a_1 + a_4)(a_3 + a_1 + a_2 + a_4)a_4} + \frac{1}{(a_1 + a_4)(a_2 + a_1 + a_4)(a_3 + a_1 + a_2 + a_4)a_4} + \frac{1}{(a_1 + a_4)(a_2 + a_1 + a_2 + a_4)a_4} + \frac{1}{(a_1 + a_4)(a_2 + a_1 + a_2 + a_4)a_4} + \frac{1}{(a_1 + a_4)(a_2 + a_1 + a_2 + a_4)a_4} + \frac{1}{(a_1 + a_4)(a_2 + a_1 + a_2 + a_4)a_4} + \frac{1}{(a_1 + a_4)(a_2 + a_1 + a_2 + a_4)a_4} + \frac{1}{(a_1 + a_4)(a_2 + a_1 + a_2 + a_4)a_4} + \frac{1}{(a_1 + a_4)(a_2 + a_1 + a_2 + a_4)a_4} + \frac{1}{(a_1 + a_4)(a_2 + a_1 + a_2 + a_4)a_4} + \frac{1}{(a_1 + a_4)(a_2 + a_1 + a_2 + a_4)a_4} + \frac{1}{(a_1 + a_4)(a_2 + a_1 + a_2 + a_4)a_4} + \frac{1}{(a_1 + a_4)(a_2 + a_4)(a_3 + a_4)(a_4 + a$$

Equivalent tree diagrams: T6, T6, T6, T6, T6, T6.

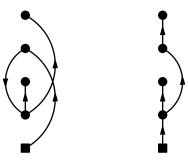


Number of related Feynman diagrams: 4. Related Feynman diagrams: 196, 241, 379, 485.

Time-structure diagram T9:



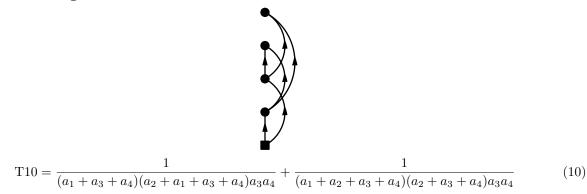
Equivalent tree diagrams: T7, T5.



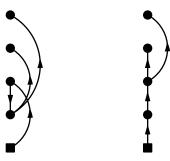
Number of related Feynman diagrams: 40.

 $\begin{array}{c} \text{Related Feynman diagrams: 97, 98, 99, 100, 101, 102, 104, 105, 106, 107, 108, 109, 230, 266, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 428, 429, 430, 431, 432, 433, 434, 435, 436, 437, 502, 503, 267, 16, 96, 103.} \end{array}$

Time-structure diagram T10:



Equivalent tree diagrams: T7, T7.



Number of related Feynman diagrams: 18.

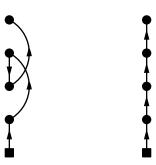
Related Feynman diagrams: 57, 59, 60, 215, 218, 404, 407, 408, 565, 566, 567, 568, 405, 406, 58, 216, 217, 244.

Time-structure diagram T11:



$$T11 = \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_4)(a_3 + a_2 + a_4)a_4} + \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_3 + a_4)(a_3 + a_4)a_4}$$
(11)

Equivalent tree diagrams: T6, T6.



Number of related Feynman diagrams: 40.

Time-structure diagram T12:



$$T12 = \frac{1}{(a_1 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_4)a_4} + \frac{1}{(a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_4)a_4} + \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_3 + a_4)(a_3 + a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_2 + a_$$

Equivalent tree diagrams: T6, T6, T6.







Number of related Feynman diagrams: 66.

 $\begin{array}{c} \text{Related Feynman diagrams: } 43, \, 44, \, 45, \, 114, \, 115, \, 116, \, 117, \, 118, \, 119, \, 120, \, 121, \, 122, \, 123, \, 124, \, 125, \, 191, \, 192, \, 194, \, 195, \, 231, \, 240, \, 278, \, 280, \, 281, \, 282, \, 283, \, 284, \, 285, \, 286, \, 287, \, 288, \, 289, \, 372, \, 373, \, 374, \, 375, \, 376, \, 377, \, 378, \, 438, \, 439, \, 440, \, 441, \, 442, \, 443, \, 444, \, 445, \, 446, \, 447, \, 480, \, 482, \, 484, \, 504, \, 505, \, 546, \, 547, \, 549, \, 279, \, 548, \, 18, \, 113, \, 126, \, 193, \, 479, \, 481, \, 483. \end{array}$

Time-structure diagram T13:



$$T13 = \frac{1}{(a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_4)a_4} + \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_3 + a_4)(a_3 + a_4)a_4}$$
(13)

Equivalent tree diagrams: T6, T6.

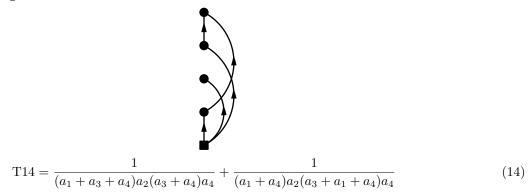




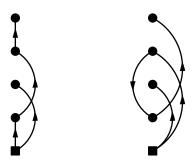
Number of related Feynman diagrams: 44.

Related Feynman diagrams: 30, 31, 32, 145, 146, 148, 149, 150, 151, 183, 234, 235, 313, 314, 315, 316, 317, 318, 319, 320, 321, 356, 357, 358, 448, 451, 453, 454, 455, 456, 522, 524, 525, 541, 355, 523, 540, 41, 147, 182, 184, 449, 450, 452.

Time-structure diagram T14:



Equivalent tree diagrams: T1, T1.



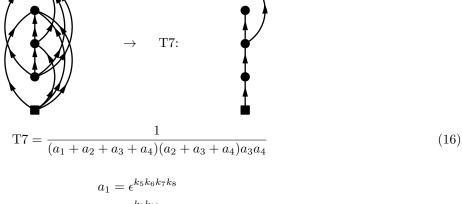
Number of related Feynman diagrams: 4. Related Feynman diagrams: 17, 110, 111, 112.

2 Two-body diagrams

2.1 Two-body energy canonical diagrams

Diagram 1:

$$PO4.1 = \lim_{\tau \to \infty} \frac{-(-1)^4}{(3!)^2} \sum_{k_i} O_{k_1 k_2 k_3 k_4}^{40} \Omega_{k_5 k_6 k_7 k_8}^{40} \Omega_{k_9 k_{10} k_5 k_1}^{22} \Omega_{k_9 k_2 k_3 k_4}^{04} \Omega_{k_{10} k_6 k_7 k_8}^{04} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_1) \theta(\tau_1) \theta(\tau_1) \theta(\tau_2$$



$$a_{1} = \epsilon^{k_{5}k_{6}k_{7}k_{8}}$$

$$a_{2} = \epsilon^{k_{9}k_{10}}_{k_{1}k_{5}}$$

$$a_{3} = \epsilon_{k_{2}k_{3}k_{4}k_{9}}$$

$$a_{4} = \epsilon_{k_{6}k_{7}k_{8}k_{10}}$$

Diagram 2:

$$PO4.2 = \lim_{\tau \to \infty} \frac{(-1)^4}{(2!)^2(3!)} \sum_{k_i} O_{k_1 k_2 k_3 k_4}^{40} \Omega_{k_5 k_6 k_7 k_1}^{31} \Omega_{k_8 k_9 k_{10} k_5}^{40} \Omega_{k_8 k_2 k_3 k_4}^{40} \Omega_{k_9 k_{10} k_6 k_7}^{40} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_1) \theta(\tau_$$

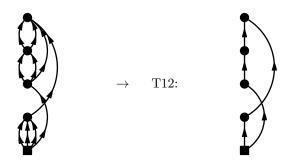
 $a_4 = \epsilon_{k_6 k_7 k_0 k_{10}}$

Diagram 3:

$$PO4.3 = \lim_{\tau \to \infty} \frac{-(-1)^4}{(2!)^2(3!)} \sum_{k_i} O_{k_1 k_2 k_3 k_4}^{40} \Omega_{k_5 k_6 k_7 k_8}^{40} \Omega_{k_3 k_1 0 k_5 k_6}^{22} \Omega_{k_9 k_1 0 k_5 k_6}^{04} \Omega_{k_9 k_1 k_2 k_3}^{04} \Omega_{k_1 0 k_7 k_8 k_4}^{04} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_1) \theta(\tau_$$

Diagram 4:

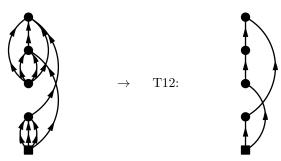
$$PO4.4 = \lim_{\tau \to \infty} \frac{-(-1)^4}{(2!)^2(3!)} \sum_{k_i} O_{k_1 k_2 k_3 k_4}^{40} \Omega_{k_5 k_1 k_2 k_3}^{13} \Omega_{k_6 k_7 k_8 k_4}^{31} \Omega_{k_9 k_{10} k_6 k_7}^{22} \Omega_{k_9 k_{10} k_8 k_5}^{04} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_2) \theta(\tau$$



$$T12 = \frac{1}{(a_1 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_4)a_4} + \frac{1}{(a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_4)a_4} + \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_2)(a_3 + a_1$$

Diagram 5:

$$PO4.5 = \lim_{\tau \to \infty} \frac{-(-1)^4}{(2!)^2 (3!)} \sum_{k_i} O_{k_1 k_2 k_3 k_4}^{40} \Omega_{k_5 k_1 k_2 k_3}^{13} \Omega_{k_6 k_7 k_8 k_9}^{40} \Omega_{k_{10} k_6 k_7 k_4}^{13} \Omega_{k_{10} k_8 k_9 k_5}^{40} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_2) \theta($$

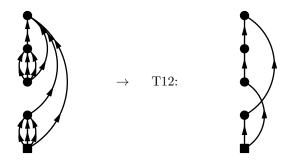


$$T12 = \frac{1}{(a_1 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_4)a_4} + \frac{1}{(a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_4)a_4} + \frac{1}{(a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_4)a_4} + \frac{1}{(a_1 + a_3 + a_4)(a_3 + a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_4)a_4} + \frac{1}{(a_1 + a_3 + a_4)(a_3 + a_1 + a_3 + a_4)(a_3 + a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_4)(a_3 + a_4)(a_3 + a_4)(a_3 + a_4)(a_4 + a_4)$$

$$\begin{aligned} a_1 &= \epsilon_{k_1 k_2 k_3}^{k_5} \\ a_2 &= \epsilon^{k_6 k_7 k_8 k_9} \\ a_3 &= \epsilon_{k_4 k_6 k_7}^{k_{10}} \\ a_4 &= \epsilon_{k_5 k_8 k_9 k_{10}}^{k_{10}} \end{aligned}$$

Diagram 6:

$$PO4.6 = \lim_{\tau \to \infty} \frac{(-1)^4}{(3!)^2} \sum_{k_i} O_{k_1 k_2 k_3 k_4}^{40} \Omega_{k_5 k_1 k_2 k_3}^{13} \Omega_{k_6 k_7 k_8 k_9}^{40} \Omega_{k_{10} k_6 k_7 k_8}^{13} \Omega_{k_{10} k_9 k_5 k_4}^{04} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 -$$



$$T12 = \frac{1}{(a_1 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_4)a_4} + \frac{1}{(a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_4)a_4} + \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_4)a_4} + \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_3 + a_4)a_4} + \frac{1}{(a_1 + a_3 + a_4)(a_3 + a_4)(a_3 + a_4)(a_3 + a_4)(a_3 + a_4)(a_3 + a_4)(a_4 + a_4)(a_4$$

$$a_1 = \epsilon_{k_1 k_2 k_3}^{k_5}$$

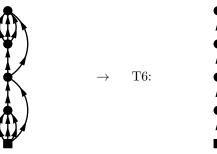
$$a_2 = \epsilon_{k_6 k_7 k_8 k_9}^{k_{10}}$$

$$a_3 = \epsilon_{k_6 k_7 k_8}^{k_{10}}$$

$$a_4 = \epsilon_{k_4 k_5 k_9 k_{10}}$$

Diagram 7:

$$PO4.7 = \lim_{\tau \to \infty} \frac{(-1)^4}{(3!)^2} \sum_{k_i} O_{k_1 k_2 k_3 k_4}^{40} \Omega_{k_5 k_1 k_2 k_3}^{13} \Omega_{k_6 k_7 k_5 k_4}^{22} \Omega_{k_8 k_9 k_{10} k_6}^{31} \Omega_{k_8 k_9 k_{10} k_7}^{40} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 -$$



$$T6 = \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_3 + a_4)(a_3 + a_4)a_4}$$

$$a_1 = \epsilon_{k_1 k_2 k_3}^{k_5}$$

$$a_2 = \epsilon_{k_4 k_5}^{k_6 k_7}$$

$$a_3 = \epsilon_{k_6}^{k_8 k_9 k_{10}}$$
(28)

Diagram 8:

$$PO4.8 = \lim_{\tau \to \infty} \frac{(-1)^4}{(2!)^2 (3!)} \sum_{k_i} O_{k_1 k_2 k_3 k_4}^{40} \Omega_{k_5 k_1 k_2 k_3}^{13} \Omega_{k_6 k_7 k_8 k_5}^{31} \Omega_{k_9 k_{10} k_6 k_4}^{22} \Omega_{k_9 k_{10} k_7 k_8}^{40} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_2) \theta(\tau$$

$$T6 = \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_3 + a_4)(a_3 + a_4)a_4}$$

$$a_1 = \epsilon_{k_1 k_2 k_3}^{k_5}$$

$$a_2 = \epsilon_{k_5}^{k_6 k_7 k_8}$$

$$a_3 = \epsilon_{k_4 k_6}^{k_9 k_{10}}$$

$$a_4 = \epsilon_{k_7 k_8 k_9 k_{10}}$$

$$(30)$$

Diagram 9:

$$PO4.9 = \lim_{\tau \to \infty} \frac{(-1)^4}{(2!)^2(3!)} \sum_{k_i} O_{k_1 k_2 k_3 k_4}^{40} \Omega_{k_5 k_1 k_2 k_3}^{13} \Omega_{k_6 k_7 k_8 k_5}^{31} \Omega_{k_6 k_7 k_8 k_5}^{22} \Omega_{k_9 k_{10} k_6 k_7}^{40} \Omega_{k_9 k_{10} k_8 k_4}^{40} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_2) \theta(\tau_4$$

 $a_4 = \epsilon_{k_4 k_8 k_9 k_{10}}$

Diagram 10:

PO4.10 =
$$\lim_{\tau \to \infty} \frac{(-1)^4}{(3!)^2} \sum_{k_i} O_{k_1 k_2 k_3 k_4}^{40} \Omega_{k_5 k_6 k_7 k_8}^{40} \Omega_{k_9 k_5 k_6 k_7}^{13} \Omega_{k_{10} k_9 k_8 k_1}^{13} \Omega_{k_{10} k_2 k_3 k_4}^{04} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_3 - \tau_3) \theta(\tau_3 - \tau_2) \theta(\tau_3 - \tau_2) \theta(\tau_3 - \tau_3) \theta(\tau_3 -$$

$$T6 = \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_3 + a_4)(a_3 + a_4)a_4}$$

$$a_1 = \epsilon^{k_5 k_6 k_7 k_8}$$

$$a_2 = \epsilon^{k_9}_{k_5 k_6 k_7}$$

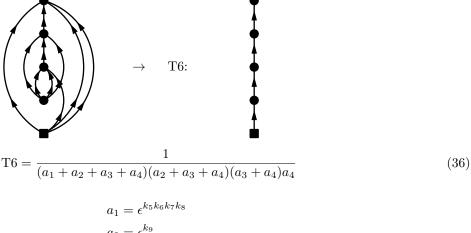
$$a_3 = \epsilon^{k_{10}}_{k_1 k_8 k_9}$$

$$a_4 = \epsilon_{k_1 k_2 k_3}$$

$$a_4 = \epsilon_{k_3 k_4 k_5}$$
(34)

Diagram 11:

$$PO4.11 = \lim_{\tau \to \infty} \frac{(-1)^4}{(2!)^2 (3!)} \sum_{k_i} O_{k_1 k_2 k_3 k_4}^{40} \Omega_{k_5 k_6 k_7 k_8}^{40} \Omega_{k_9 k_5 k_6 k_1}^{13} \Omega_{k_{10} k_9 k_7 k_8}^{13} \Omega_{k_{10} k_2 k_3 k_4}^{04} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_2) \theta($$



$$a_{2} = \epsilon_{k_{1}k_{5}k_{6}}^{k_{9}}$$

$$a_{3} = \epsilon_{k_{7}k_{8}k_{9}}^{k_{10}}$$

$$a_{4} = \epsilon_{k_{2}k_{3}k_{4}k_{10}}$$

Diagram 12:

$$PO4.12 = \lim_{\tau \to \infty} \frac{(-1)^4}{(2!)^2 (3!)} \sum_{k_i} O_{k_1 k_2 k_3 k_4}^{40} \Omega_{k_5 k_6 k_7 k_1}^{31} \Omega_{k_8 k_9 k_5 k_6}^{22} \Omega_{k_{10} k_8 k_9 k_7}^{13} \Omega_{k_{10} k_2 k_3 k_4}^{04} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_2) \theta($$

$$a_1 = \epsilon_{k_1}^{k_5 k_6 k_7}$$

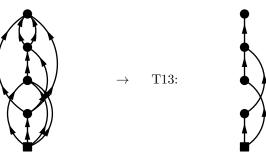
$$a_2 = \epsilon_{k_5 k_6}^{k_8 k_9}$$

$$a_3 = \epsilon_{k_7 k_8 k_9}^{k_{10}}$$

$$a_4 = \epsilon_{k_2 k_3 k_4 k_{10}}$$

Diagram 13:

$$PO4.13 = \lim_{\tau \to \infty} \frac{-(-1)^4}{(2!)^2 (3!)} \sum_{k_i} O_{k_1 k_2 k_3 k_4}^{40} \Omega_{k_5 k_6 k_7 k_1}^{31} \Omega_{k_8 k_2 k_3 k_4}^{13} \Omega_{k_9 k_{10} k_8 k_5}^{22} \Omega_{k_9 k_{10} k_6 k_7}^{04} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_3 - \tau_2) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta$$



$$T13 = \frac{1}{(a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_4)a_4} + \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_3 + a_4)(a_3 + a_4)a_4}$$
(40)

$$a_1 = \epsilon_{k_1}^{k_5 k_6 k_7}$$

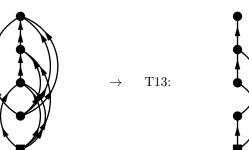
$$a_2 = \epsilon_{k_2 k_3 k_4}^{k_8}$$

$$a_3 = \epsilon_{k_5 k_8}^{k_9 k_{10}}$$

$$a_4 = \epsilon_{k_6 k_7 k_9 k_{10}}$$

Diagram 14:

$$PO4.14 = \lim_{\tau \to \infty} \frac{-(-1)^4}{(3!)^2} \sum_{k_i} O_{k_1 k_2 k_3 k_4}^{40} \Omega_{k_5 k_6 k_7 k_8}^{40} \Omega_{k_9 k_1 k_2 k_3}^{13} \Omega_{k_{10} k_9 k_5 k_4}^{13} \Omega_{k_{10} k_9 k_5 k_4}^{64} \Omega_{k_{10} k_6 k_7 k_8}^{64} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_1) \theta(\tau_$$



$$T13 = \frac{1}{(a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_4)a_4} + \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_3 + a_4)(a_3 + a_4)a_4}$$
(42)

$$a_{1} = \epsilon^{k_{5}k_{6}k_{7}k_{8}}$$

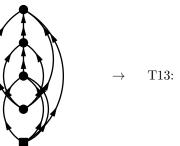
$$a_{2} = \epsilon^{k_{9}}_{k_{1}k_{2}k_{3}}$$

$$a_{3} = \epsilon^{k_{10}}_{k_{4}k_{5}k_{9}}$$

$$a_{4} = \epsilon_{k_{6}k_{7}k_{8}k_{10}}$$

Diagram 15:

$$PO4.15 = \lim_{\tau \to \infty} \frac{(-1)^4}{(2!)^2 (3!)} \sum_{k_i} O_{k_1 k_2 k_3 k_4}^{40} \Omega_{k_5 k_6 k_7 k_8}^{40} \Omega_{k_9 k_1 k_2 k_3}^{13} \Omega_{k_{10} k_9 k_5 k_6}^{13} \Omega_{k_{10} k_9 k_5 k_6}^{04} \Omega_{k_{10} k_7 k_8 k_4}^{04} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_1)$$



$$T13 = \frac{1}{(a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_4)a_4} + \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_3 + a_4)(a_3 + a_4)a_4}$$

$$a_1 = \epsilon^{k_5 k_6 k_7 k_8}$$

$$a_2 = \epsilon^{k_9}_{k_1 k_2 k_3}$$

$$a_3 = \epsilon^{k_{10}}_{k_5 k_6 k_9}$$

$$a_4 = \epsilon$$

$$a_4 = \epsilon$$

$$a_{11} = \epsilon$$

$$a_{12} = \epsilon$$

$$a_{13} = \epsilon$$

$$a_{14} = \epsilon$$

$$a_{15} = \epsilon$$

Diagram 16:

Diagram 16:
$$PO4.16 = \lim_{\tau \to \infty} \frac{(-1)^4}{(3!)^2} \sum_{k_i} O_{k_1 k_2 k_3 k_4}^{40} \Omega_{k_5 k_6 k_7 k_1}^{31} \Omega_{k_5 k_2 k_3 k_4}^{04} \Omega_{k_8 k_9 k_{10} k_6}^{31} \Omega_{k_8 k_9 k_{10} k_7}^{04} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_4 -$$

$$T5 = \frac{1}{(a_1 + a_2 + a_3 + a_4)a_2(a_3 + a_4)a_4}$$

$$a_1 = \epsilon_{k_1}^{k_5 k_6 k_7}$$

$$a_2 = \epsilon_{k_2 k_3 k_4 k_5}$$

$$a_3 = \epsilon_{k_6}^{k_8 k_9 k_{10}}$$

$$a_4 = \epsilon_{k_7 k_8 k_9 k_{10}}$$

$$a_4 = \epsilon_{k_7 k_8 k_9 k_{10}}$$
(46)

Diagram 17:

$$PO4.17 = \lim_{\tau \to \infty} \frac{-(-1)^4}{(2!)^2(3!)} \sum_{k_i} O_{k_1 k_2 k_3 k_4}^{40} \Omega_{k_5 k_6 k_7 k_8}^{40} \Omega_{k_5 k_1 k_2 k_3}^{40} \Omega_{k_9 k_{10} k_6 k_4}^{20} \Omega_{k_9 k_{10} k_7 k_8}^{60} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_1) \theta($$

Diagram 18:

$$PO4.18 = \lim_{\tau \to \infty} \frac{-(-1)^4}{(2!)^2(3!)} \sum_{k_i} O_{k_1 k_2 k_3 k_4}^{40} \Omega_{k_5 k_6 k_7 k_8}^{40} \Omega_{k_5 k_1 k_2 k_3}^{42} \Omega_{k_6 k_1 k_2 k_3}^{22} \Omega_{k_9 k_{10} k_6 k_7}^{40} \Omega_{k_9 k_{10} k_8 k_4}^{40} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau$$

Diagram 19:

$$PO4.19 = \lim_{\tau \to \infty} \frac{-(-1)^4}{2(2!)^2} \sum_{k_i} O_{k_1 k_2 k_3 k_4}^{40} \Omega_{k_5 k_6 k_7 k_1}^{31} \Omega_{k_8 k_9 k_{10} k_2}^{31} \Omega_{k_8 k_9 k_5 k_3}^{04} \Omega_{k_{10} k_6 k_7 k_4}^{04} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_1) \theta(\tau_4$$

$$T10 = \frac{1}{(a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)a_3a_4} + \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_3 + a_4)a_3a_4}$$

$$a_1 = \epsilon_{k_1}^{k_5 k_6 k_7}$$

$$a_2 = \epsilon_{k_2}^{k_8 k_9 k_{10}}$$

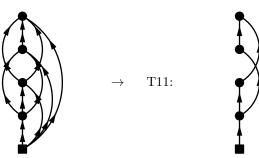
$$a_3 = \epsilon_{k_3 k_5 k_8 k_9}$$

$$a_4 = \epsilon_{k_4 k_6 k_7 k_{10}}$$

$$(52)$$

Diagram 20:

$$PO4.20 = \lim_{\tau \to \infty} \frac{(-1)^4}{(2!)^2} \sum_{k_i} O_{k_1 k_2 k_3 k_4}^{40} \Omega_{k_5 k_6 k_7 k_1}^{31} \Omega_{k_8 k_9 k_5 k_2}^{22} \Omega_{k_{10} k_6 k_7 k_3}^{13} \Omega_{k_{10} k_8 k_9 k_4}^{04} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_2) \theta(\tau_5 - \tau_1) \theta(\tau_5 -$$



$$T11 = \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_4)(a_3 + a_2 + a_4)a_4} + \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_3 + a_4)(a_3 + a_4)a_4}$$

$$a_1 = \epsilon_{k_1}^{k_5 k_6 k_7}$$

$$a_2 = \epsilon_{k_2 k_5}^{k_8 k_9}$$

$$a_3 = \epsilon_{k_3 k_6 k_7}^{k_{10}}$$

$$a_4 = \epsilon_{k_3 k_6 k_7}^{k_{10}}$$

Diagram 21:

$$PO4.21 = \lim_{\tau \to \infty} -(-1)^4 \sum_{k_i} O_{k_1 k_2 k_3 k_4}^{40} \Omega_{k_5 k_6 k_7 k_1}^{31} \Omega_{k_8 k_9 k_5 k_2}^{22} \Omega_{k_1 0 k_8 k_6 k_3}^{13} \Omega_{k_{10} k_8 k_6 k_4}^{04} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_4$$

Diagram 22:

$$PO4.22 = \lim_{\tau \to \infty} \frac{(-1)^4}{(2!)^2} \sum_{k_i} O_{k_1 k_2 k_3 k_4}^{40} \Omega_{k_5 k_6 k_7 k_1}^{31} \Omega_{k_8 k_5 k_6 k_2}^{13} \Omega_{k_9 k_{10} k_8 k_3}^{22} \Omega_{k_9 k_{10} k_8 k_3}^{04} \Omega_{k_9 k_{10} k_7 k_4}^{14} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_1) \theta(\tau_4$$

Diagram 23:

$$PO4.23 = \lim_{\tau \to \infty} \frac{(-1)^4}{(2!)^2} \sum_{k_i} O_{k_1 k_2 k_3 k_4}^{40} \Omega_{k_5 k_6 k_7 k_1}^{31} \Omega_{k_8 k_9 k_5 k_2}^{22} \Omega_{k_{10} k_8 k_9 k_3}^{13} \Omega_{k_{10} k_6 k_7 k_4}^{04} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_1) \theta(\tau_4 -$$

$$T6 = \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_3 + a_4)(a_3 + a_4)a_4}$$

$$a_1 = \epsilon_{k_1}^{k_5 k_6 k_7}$$

$$a_2 = \epsilon_{k_2 k_5}^{k_8 k_9}$$

$$a_3 = \epsilon_{k_3 k_8 k_9}^{k_{10}}$$

$$a_4 = \epsilon_{k_1 k_1 k_2}^{k_1 k_3 k_3 k_4}$$

$$a_4 = \epsilon_{k_1 k_2 k_3 k_4}^{k_1 k_3 k_4}$$
(60)

Diagram 24:

$$PO4.24 = \lim_{\tau \to \infty} \frac{(-1)^4}{2(3!)^2} \sum_{k_i} O_{k_1 k_2 k_3 k_4}^{40} \Omega_{k_5 k_6 k_7 k_1}^{31} \Omega_{k_5 k_6 k_7 k_2}^{04} \Omega_{k_8 k_9 k_{10} k_3}^{31} \Omega_{k_8 k_9 k_{10} k_4}^{04} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_{k_1}^{k_5 k_6 k_7}} e^{-\tau_1 \epsilon_{k_1}$$

$$T4 = \frac{1}{(a_1 + a_2)a_2(a_3 + a_4)a_4}$$

$$a_1 = \epsilon_{k_1}^{k_5 k_6 k_7}$$

$$a_2 = \epsilon_{k_2 k_5 k_6 k_7}$$

$$a_3 = \epsilon_{k_3}^{k_8 k_9 k_{10}}$$

$$a_4 = \epsilon_{k_4 k_8 k_9 k_{10}}$$

$$a_4 = \epsilon_{k_4 k_8 k_9 k_{10}}$$
(62)

Diagram 25:

$$PO4.25 = \lim_{\tau \to \infty} \frac{-(-1)^4}{2(2!)^3} \sum_{k_i} O_{k_1 k_2 k_3 k_4}^{40} \Omega_{k_5 k_6 k_7 k_8}^{40} \Omega_{k_9 k_{10} k_1 k_2}^{22} \Omega_{k_9 k_5 k_6 k_3}^{04} \Omega_{k_{10} k_7 k_8 k_4}^{04} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_1) \theta(\tau_4$$

$$a_{1} = \epsilon^{k_{5}k_{6}k_{7}k_{8}}$$

$$a_{2} = \epsilon^{k_{9}k_{10}}_{k_{1}k_{2}}$$

$$a_{3} = \epsilon_{k_{3}k_{5}k_{6}k_{9}}$$

$$a_{4} = \epsilon_{k_{4}k_{7}k_{8}k_{10}}$$

Diagram 26:

$$PO4.26 = \lim_{\tau \to \infty} \frac{-(-1)^4}{2(2!)^3} \sum_{k_i} O_{k_1 k_2 k_3 k_4}^{40} \Omega_{k_5 k_6 k_7 k_1}^{31} \Omega_{k_8 k_9 k_{10} k_2}^{31} \Omega_{k_8 k_9 k_5 k_6}^{04} \Omega_{k_{10} k_7 k_3 k_4}^{04} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_1) \theta(\tau_4$$

$$T10 = \frac{1}{(a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)a_3a_4} + \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_3 + a_4)a_3a_4}$$

$$a_1 = \epsilon_{k_5}^{k_5k_6k_7}$$

$$a_2 = \epsilon_{k_5}^{k_5k_6k_8k_9}$$

$$a_3 = \epsilon_{k_5k_6k_8k_9}$$

$$a_4 = \epsilon_{k_3k_4k_7k_{10}}$$

$$(66)$$

Diagram 27:

$$PO4.27 = \lim_{\tau \to \infty} \frac{(-1)^4}{(2!)^2} \sum_{k_i} O_{k_1 k_2 k_3 k_4}^{40} \Omega_{k_5 k_6 k_7 k_8}^{40} \Omega_{k_9 k_1 0 k_5 k_1}^{22} \Omega_{k_9 k_6 k_2 k_3}^{04} \Omega_{k_{10} k_7 k_8 k_4}^{04} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_4 -$$

$$T7 = \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_3 + a_4)a_3a_4}$$

$$a_1 = \epsilon^{k_5 k_6 k_7 k_8}$$

$$a_2 = \epsilon^{k_9 k_{10}}_{k_1 k_5}$$

$$a_3 = \epsilon_{k_2 k_3 k_6 k_9}$$

$$a_4 = \epsilon_{k_4 k_7 k_8 k_{10}}$$

$$(68)$$

Diagram 28:

$$PO4.28 = \lim_{\tau \to \infty} \frac{(-1)^4}{(2!)^2} \sum_{k_i} O_{k_1 k_2 k_3 k_4}^{40} \Omega_{k_5 k_6 k_7 k_1}^{31} \Omega_{k_8 k_9 k_{10} k_5}^{40} \Omega_{k_8 k_6 k_2 k_3}^{04} \Omega_{k_9 k_{10} k_7 k_4}^{07} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_4 -$$

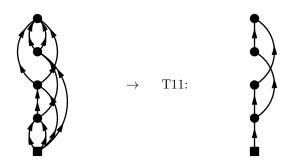
 $a_4 = \epsilon_{k_4 k_7 k_9 k_{10}}$

Diagram 29:

$$PO4.29 = \lim_{\tau \to \infty} \frac{(-1)^4}{(2!)^3} \sum_{k_i} O_{k_1 k_2 k_3 k_4}^{40} \Omega_{k_3 k_6 k_7 k_1}^{31} \Omega_{k_8 k_9 k_1 0 k_5}^{30} \Omega_{k_8 k_9 k_2 k_3}^{04} \Omega_{k_{10} k_6 k_7 k_4}^{40} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_1) \theta(\tau_4 -$$

Diagram 30:

$$PO4.30 = \lim_{\tau \to \infty} \frac{-(-1)^4}{2(2!)^3} \sum_{k_i} O_{k_1 k_2 k_3 k_4}^{40} \Omega_{k_5 k_6 k_1 k_2}^{22} \Omega_{k_7 k_8 k_5 k_3}^{22} \Omega_{k_9 k_{10} k_6 k_4}^{22} \Omega_{k_9 k_{10} k_6 k_4}^{04} \Omega_{k_9 k_{10} k_7 k_8}^{40} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau$$



$$T11 = \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_4)(a_3 + a_2 + a_4)a_4} + \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_3 + a_4)(a_3 + a_4)a_4}$$
(74)

$$a_{1} = \epsilon_{k_{1}k_{2}}^{k_{5}k_{6}}$$

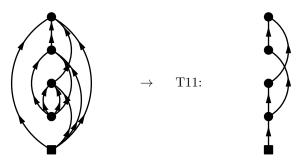
$$a_{2} = \epsilon_{k_{3}k_{5}}^{k_{7}k_{8}}$$

$$a_{3} = \epsilon_{k_{4}k_{6}}^{k_{9}k_{10}}$$

$$a_{4} = \epsilon_{k_{7}k_{8}k_{9}k_{11}}$$

Diagram 31:

$$PO4.31 = \lim_{\tau \to \infty} \frac{-(-1)^4}{2(2!)^3} \sum_{k_i} O_{k_1 k_2 k_3 k_4}^{40} \Omega_{k_5 k_6 k_7 k_8}^{40} \Omega_{k_9 k_5 k_6 k_1}^{13} \Omega_{k_{10} k_7 k_8 k_2}^{13} \Omega_{k_{10} k_9 k_3 k_4}^{40} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4$$



$$T11 = \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_4)(a_3 + a_2 + a_4)a_4} + \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_3 + a_4)(a_3 + a_4)a_4}$$
(76)

$$a_1 = \epsilon^{k_5 k_6 k_7 k_8}$$

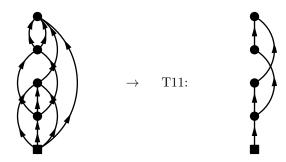
$$a_2 = \epsilon^{k_9}_{k_1 k_5 k_6}$$

$$a_3 = \epsilon^{k_{10}}_{k_2 k_7 k_8}$$

$$a_4 = \epsilon_{k_3 k_4 k_9 k_{10}}$$

Diagram 32:

$$PO4.32 = \lim_{\tau \to \infty} \frac{(-1)^4}{(2!)^3} \sum_{k_i} O_{k_1 k_2 k_3 k_4}^{40} \Omega_{k_5 k_6 k_7 k_1}^{31} \Omega_{k_8 k_5 k_2 k_3}^{13} \Omega_{k_9 k_{10} k_6 k_7}^{22} \Omega_{k_9 k_{10} k_8 k_4}^{04} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4 -$$



$$T11 = \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_4)(a_3 + a_2 + a_4)a_4} + \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_3 + a_4)(a_3 + a_4)a_4}$$
(78)

$$a_{1} = \epsilon_{k_{1}}^{k_{5}k_{6}k_{7}}$$

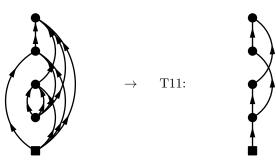
$$a_{2} = \epsilon_{k_{2}k_{3}k_{5}}^{k_{8}}$$

$$a_{3} = \epsilon_{k_{6}k_{7}}^{k_{9}k_{10}}$$

$$a_{4} = \epsilon_{k_{4}k_{8}k_{9}k_{14}}$$

Diagram 33:

$$PO4.33 = \lim_{\tau \to \infty} \frac{-(-1)^4}{(2!)^2} \sum_{k_i} O_{k_1 k_2 k_3 k_4}^{40} \Omega_{k_5 k_6 k_7 k_8}^{40} \Omega_{k_9 k_5 k_6 k_1}^{13} \Omega_{k_{10} k_7 k_2 k_3}^{13} \Omega_{k_{10} k_9 k_8 k_4}^{04} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_1) \theta(\tau_1) \theta(\tau_1$$



$$T11 = \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_4)(a_3 + a_2 + a_4)a_4} + \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_3 + a_4)(a_3 + a_4)a_4}$$
(80)

$$a_1 = \epsilon^{k_5 k_6 k_7 k_8}$$

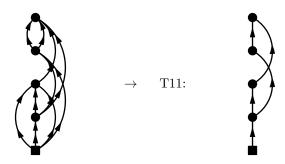
$$a_2 = \epsilon^{k_9}_{k_1 k_5 k_6}$$

$$a_3 = \epsilon^{k_{10}}_{k_2 k_3 k_7}$$

$$a_4 = \epsilon_{k_4 k_8 k_9 k_{10}}$$

Diagram 34:

$$\begin{aligned} \text{PO4.34} &= \lim_{\tau \to \infty} \frac{-(-1)^4}{(2!)^2} \sum_{k_i} O_{k_1 k_2 k_3 k_4}^{40} \Omega_{k_5 k_6 k_7 k_1}^{31} \Omega_{k_8 k_5 k_2 k_3}^{13} \Omega_{k_9 k_{10} k_6 k_4}^{22} \Omega_{k_9 k_{10} k_8 k_7}^{64} \int_0^{\tau} \mathrm{d}\tau_1 \mathrm{d}\tau_2 \mathrm{d}\tau_3 \mathrm{d}\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_1) \theta$$



$$T11 = \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_4)(a_3 + a_2 + a_4)a_4} + \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_3 + a_4)(a_3 + a_4)a_4}$$
(82)

$$a_1 = \epsilon_{k_1}^{k_5 k_6 k_7}$$

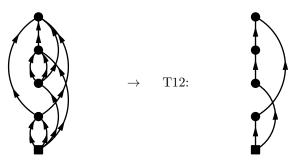
$$a_2 = \epsilon_{k_2 k_3 k_5}^{k_8}$$

$$a_3 = \epsilon_{k_4 k_6}^{k_9 k_{10}}$$

$$a_4 = \epsilon_{k_7 k_8 k_9 k_{10}}$$

Diagram 35:

$$PO4.35 = \lim_{\tau \to \infty} \frac{-(-1)^4}{(2!)^3} \sum_{k_i} O_{k_1 k_2 k_3 k_4}^{40} \Omega_{k_5 k_6 k_1 k_2}^{22} \Omega_{k_7 k_8 k_9 k_3}^{31} \Omega_{k_{10} k_7 k_8 k_4}^{13} \Omega_{k_{10} k_7 k_8 k_4}^{04} \Omega_{k_{10} k_9 k_5 k_6}^{04} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_2) \theta(\tau_$$



$$T12 = \frac{1}{(a_1 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_4)a_4} + \frac{1}{(a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_4)a_4} + \frac{1}{(a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_3 + a_4)(a_3 + a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_4)(a_3 + a_1 + a_3 + a_4)(a_3 + a_1 + a_3 + a_4)(a_3 + a_1 + a_4)(a_3 + a_4)($$

$$a_1 = \epsilon_{k_1 k_2}^{k_5 k_6}$$

$$a_2 = \epsilon_{k_3}^{k_7 k_8 k_9}$$

$$a_3 = \epsilon_{k_4 k_7 k_8}^{k_{10}}$$

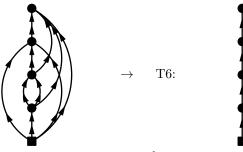
$$a_4 = \epsilon_{k_5 k_6 k_9 k_{10}}$$

Diagram 36:

$$PO4.36 = \lim_{\tau \to \infty} \frac{(-1)^4}{(2!)^2} \sum_{k_i} O_{k_1 k_2 k_3 k_4}^{40} \Omega_{k_5 k_6 k_1 k_2}^{22} \Omega_{k_7 k_8 k_9 k_5}^{31} \Omega_{k_{10} k_7 k_8 k_3}^{13} \Omega_{k_{10} k_9 k_6 k_4}^{04} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_1) \theta(\tau_1) \theta(\tau_1) \theta(\tau_2$$

Diagram 37:

$$PO4.37 = \lim_{\tau \to \infty} \frac{(-1)^4}{(2!)^2} \sum_{k_i} O_{k_1 k_2 k_3 k_4}^{40} \Omega_{k_5 k_6 k_7 k_1}^{31} \Omega_{k_8 k_9 k_5 k_6}^{22} \Omega_{k_{10} k_8 k_2 k_3}^{13} \Omega_{k_{10} k_9 k_7 k_4}^{04} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_1) \theta(\tau_4 -$$



$$T6 = \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_3 + a_4)(a_3 + a_4)a_4}$$

$$a_1 = \epsilon_{k_1}^{k_5 k_6 k_7}$$

$$a_2 = \epsilon_{k_5 k_6}^{k_8 k_9}$$

$$a_3 = \epsilon_{k_2 k_3 k_8}^{k_{10}}$$

$$a_4 = \epsilon_{k_4 k_7 k_9 k_{10}}$$

$$(88)$$

Diagram 38:

PO4.38 =
$$\lim_{\tau \to \infty} \frac{-(-1)^4}{(2!)^2} \sum_{k_i} O_{k_1 k_2 k_3 k_4}^{40} \Omega_{k_5 k_6 k_1 k_2}^{22} \Omega_{k_7 k_8 k_5 k_3}^{22} \Omega_{k_9 k_{10} k_7 k_4}^{22} \Omega_{k_9 k_{10} k_8 k_6}^{60} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_1) \theta(\tau_4$$

$$T6 = \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_3 + a_4)(a_3 + a_4)a_4}$$

$$a_1 = \epsilon_{k_1 k_2}^{k_5 k_6}$$

$$a_2 = \epsilon_{k_3 k_5}^{k_7 k_8}$$

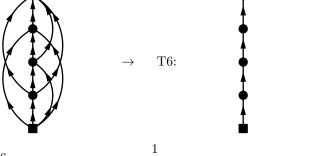
$$a_3 = \epsilon_{k_4 k_7}^{k_9 k_{10}}$$

$$a_4 = \epsilon_{k_4 k_7}$$

$$a_4 = \epsilon_{k_5 k_6}$$
(90)

Diagram 39:

$$PO4.39 = \lim_{\tau \to \infty} \frac{(-1)^4}{(2!)^2} \sum_{k_i} O_{k_1 k_2 k_3 k_4}^{40} \Omega_{k_5 k_6 k_7 k_1}^{31} \Omega_{k_8 k_9 k_5 k_2}^{22} \Omega_{k_{10} k_8 k_3 k_4}^{13} \Omega_{k_{10} k_9 k_6 k_7}^{40} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_1) \theta(\tau_1) \theta(\tau_1) \theta(\tau_2$$



$$T6 = \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_3 + a_4)(a_3 + a_4)a_4}$$

$$a_1 = \epsilon_{k_1}^{k_5 k_6 k_7}$$

$$a_2 = \epsilon_{k_2 k_5}^{k_8 k_9}$$

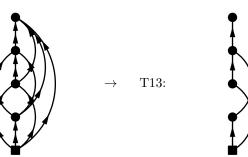
$$a_3 = \epsilon_{k_3 k_4 k_8}^{k_{10}}$$

$$a_4 = \epsilon_{k_5 k_5 k_5 k_5 k_5}$$

$$a_4 = \epsilon_{k_5 k_5 k_5 k_5 k_5}$$

Diagram 40:

$$PO4.40 = \lim_{\tau \to \infty} \frac{(-1)^4}{(2!)^2} \sum_{k_i} O_{k_1 k_2 k_3 k_4}^{40} \Omega_{k_5 k_6 k_7 k_1}^{31} \Omega_{k_8 k_9 k_2 k_3}^{22} \Omega_{k_{10} k_8 k_5 k_6}^{13} \Omega_{k_{10} k_8 k_5 k_6}^{04} \Omega_{k_{10} k_9 k_7 k_4}^{04} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_1) \theta(\tau_4$$



$$T13 = \frac{1}{(a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_4)a_4} + \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_3 + a_4)(a_3 + a_4)a_4}$$
(94)

$$a_1 = \epsilon_{k_1}^{k_5 k_6 k_7}$$

$$a_2 = \epsilon_{k_2 k_3}^{k_8 k_9}$$

$$a_3 = \epsilon_{k_5 k_6 k_8}^{k_{10}}$$

$$a_4 = \epsilon_{k_4 k_7 k_9 k_{10}}$$

Diagram 41:

$$PO4.41 = \lim_{\tau \to \infty} \frac{(-1)^4}{(2!)^2} \sum_{k_i} O_{k_1 k_2 k_3 k_4}^{40} \Omega_{k_5 k_6 k_7 k_1}^{31} \Omega_{k_8 k_9 k_2 k_3}^{22} \Omega_{k_{10} k_8 k_5 k_4}^{13} \Omega_{k_{10} k_9 k_6 k_7}^{60} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_1) \theta(\tau_1) \theta(\tau_1) \theta(\tau_2$$



 \rightarrow T13:



$$T13 = \frac{1}{(a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_4)a_4} + \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_3 + a_4)(a_3 + a_4)a_4}$$

$$a_1 = \epsilon_{k_1}^{k_5 k_6 k_7}$$

$$a_2 = \epsilon_{k_2 k_3}^{k_3 k_9}$$

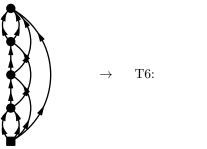
$$a_3 = \epsilon_{k_4 k_5 k_8}^{k_{10}}$$

$$a_3 = \epsilon_{k_4 k_5 k_8}^{k_{10}}$$

$$(96)$$

Diagram 42:

$$PO4.42 = \lim_{\tau \to \infty} \frac{(-1)^4}{(2!)^2} \sum_{k_i} O_{k_1 k_2 k_3 k_4}^{40} \Omega_{k_5 k_6 k_1 k_2}^{22} \Omega_{k_7 k_8 k_5 k_3}^{22} \Omega_{k_9 k_{10} k_7 k_6}^{22} \Omega_{k_9 k_{10} k_8 k_4}^{60} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_3 -$$



$$T6 = \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_3 + a_4)(a_3 + a_4)a_4}$$

$$a_1 = \epsilon_{k_1 k_2}^{k_5 k_6}$$

$$a_2 = \epsilon_{k_3 k_5}^{k_7 k_8}$$

$$a_3 = \epsilon_{k_6 k_7}^{k_9 k_{10}}$$

$$a_4 = \epsilon_{k_4 k_8 k_9 k_{10}}$$

$$(98)$$

Diagram 43:

$$PO4.43 = \lim_{\tau \to \infty} \frac{(-1)^4}{(2!)^2} \sum_{k_i} O_{k_1 k_2 k_3 k_4}^{40} \Omega_{k_3 k_6 k_7 k_1}^{31} \Omega_{k_8 k_9 k_5 k_2}^{22} \Omega_{k_{10} k_8 k_6 k_7}^{13} \Omega_{k_{10} k_9 k_3 k_4}^{40} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_3 -$$

Diagram 44:

$$PO4.44 = \lim_{\tau \to \infty} \frac{(-1)^4}{(2!)^2} \sum_{k_i} O_{k_1 k_2 k_3 k_4}^{40} \Omega_{k_2 k_6 k_1 k_2}^{22} \Omega_{k_7 k_8 k_9 k_5}^{31} \Omega_{k_{10} k_7 k_6 k_3}^{40} \Omega_{k_{10} k_8 k_9 k_4}^{40} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_3 - \tau_2) \theta(\tau_3 - \tau_2) \theta(\tau_3 - \tau_2) \theta(\tau_3 - \tau_3) \theta(\tau_3 - \tau_2) \theta(\tau_3 - \tau_3) \theta(\tau_3 -$$

Diagram 45:

$$PO4.45 = \lim_{\tau \to \infty} \frac{(-1)^4}{(2!)^2} \sum_{k_i} O_{k_1 k_2 k_3 k_4}^{40} \Omega_{k_5 k_6 k_7 k_1}^{31} \Omega_{k_8 k_9 k_5 k_6}^{22} \Omega_{k_{10} k_8 k_7 k_2}^{13} \Omega_{k_{10} k_9 k_3 k_4}^{04} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_3 -$$

$$T6 = \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_3 + a_4)(a_3 + a_4)a_4}$$

$$a_1 = \epsilon_{k_1}^{k_5 k_6 k_7}$$

$$a_2 = \epsilon_{k_5 k_6}^{k_8 k_9}$$

$$a_3 = \epsilon_{k_2 k_7 k_8}^{k_{10}}$$

$$a_4 = \epsilon_{k_3 k_4 k_9 k_{10}}$$

$$(104)$$

Diagram 46:

$$PO4.46 = \lim_{\tau \to \infty} \frac{-(-1)^4}{(2!)^3} \sum_{k_i} O_{k_1 k_2 k_3 k_4}^{40} \Omega_{k_3 k_6 k_1 k_2}^{22} \Omega_{k_7 k_8 k_5 k_6}^{22} \Omega_{k_9 k_{10} k_7 k_3}^{22} \Omega_{k_9 k_{10} k_8 k_4}^{40} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_2) \theta(\tau_4$$

Diagram 47:

$$PO4.47 = \lim_{\tau \to \infty} \frac{(-1)^4}{(2!)^2(3!)} \sum_{k_i} O_{k_1 k_2 k_3 k_4}^{40} \Omega_{k_5 k_6 k_1 k_2}^{22} \Omega_{k_7 k_5 k_6 k_3}^{13} \Omega_{k_8 k_9 k_{10} k_7}^{31} \Omega_{k_8 k_9 k_{10} k_4}^{04} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_3 k_5 k_6 k_4} \Omega_{(2!)^2(3!)}^{40} \sum_{k_i} \frac{O_{k_1 k_2 k_3 k_4}^{40} \Omega_{k_5 k_6 k_4}^{22} \Omega_{k_7 k_5 k_6 k_3}^{13} \Omega_{k_8 k_9 k_{10} k_7}^{31} \Omega_{k_8 k_9 k_{10} k_4}^{04}}{\epsilon_{k_1 k_2 k_3 k_4} \epsilon_{k_3 k_5 k_6 k_4}} \epsilon_{k_7 k_4} \epsilon_{k_4 k_8 k_9 k_{10}}$$

$$\rightarrow T6:$$

$$T6 = \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_3 + a_4)(a_3 + a_4)a_4}$$

$$a_1 = \epsilon_{k_1 k_2}^{k_5 k_6}$$

$$a_2 = \epsilon_{k_7}^{k_7}$$

$$a_3 = \epsilon_{k_7}^{k_8 k_9 k_{10}}$$

$$a_4 = \epsilon_{k_7 k_9 k_9 k_{10}}$$

$$a_4 = \epsilon_{k_7 k_9 k_9 k_{10}}$$

$$a_5 = \epsilon_{k_7 k_9 k_9 k_{10}}$$

$$a_7 = \epsilon_{k_7 k_9 k_9 k_{10}}$$
(108)

Diagram 48:

$$T6 = \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_3 + a_4)(a_3 + a_4)a_4}$$

$$a_1 = \epsilon_{k_1}^{k_5 k_6 k_7}$$

$$a_2 = \epsilon_{k_5 k_6 k_7}^{k_8}$$

$$a_3 = \epsilon_{k_2 k_8}^{k_9 k_{10}}$$

$$a_4 = \epsilon_{k_3 k_4 k_9 k_{10}}$$

$$(110)$$

Diagram 49:

$$PO4.49 = \lim_{\tau \to \infty} \frac{-(-1)^4}{(2!)^3} \sum_{k_i} O_{k_1 k_2 k_3 k_4}^{40} \Omega_{k_5 k_6 k_7 k_1}^{31} \Omega_{k_8 k_5 k_6 k_2}^{13} \Omega_{k_9 k_{10} k_8 k_7}^{22} \Omega_{k_9 k_{10} k_3 k_4}^{04} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_3$$

$$a_1 = \epsilon_{k_1}^{k_5 k_6 k_7}$$

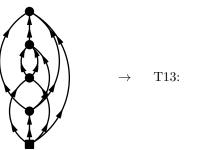
$$a_2 = \epsilon_{k_2 k_5 k_6}^{k_8}$$

$$a_3 = \epsilon_{k_7 k_8}^{k_9 k_{10}}$$

$$a_4 = \epsilon_{k_3 k_4 k_9 k_{10}}$$

Diagram 50:

$$PO4.50 = \lim_{\tau \to \infty} \frac{(-1)^4}{(2!)^3} \sum_{k_i} O_{k_1 k_2 k_3 k_4}^{40} \Omega_{k_5 k_6 k_7 k_1}^{31} \Omega_{k_8 k_9 k_2 k_3}^{22} \Omega_{k_{10} k_8 k_9 k_5}^{13} \Omega_{k_{10} k_8 k_9 k_5}^{04} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_1) \theta(\tau_4 -$$



$$T13 = \frac{1}{(a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_4)a_4} + \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_3 + a_4)(a_3 + a_4)a_4}$$

$$a_1 = \epsilon_{k_1}^{k_5 k_6 k_7}$$

$$a_2 = \epsilon_{k_2 k_3}^{k_8 k_9}$$

$$a_3 = \epsilon_{k_5 k_8 k_9}^{k_{10}}$$

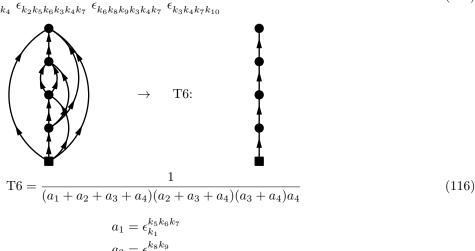
$$a_4 = \epsilon$$

$$a_4 = \epsilon$$

$$a_4 = \epsilon$$

Diagram 51:

$$PO4.51 = \lim_{\tau \to \infty} \frac{(-1)^4}{(2!)^2} \sum_{k_i} O_{k_1 k_2 k_3 k_4}^{40} \Omega_{k_5 k_6 k_7 k_1}^{31} \Omega_{k_8 k_9 k_5 k_2}^{22} \Omega_{k_{10} k_8 k_9 k_6}^{13} \Omega_{k_{10} k_7 k_3 k_4}^{40} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_4 -$$



$$a_{1} = \epsilon_{k_{1}}^{k_{5}k_{6}k_{7}}$$

$$a_{2} = \epsilon_{k_{2}k_{5}}^{k_{8}k_{9}}$$

$$a_{3} = \epsilon_{k_{6}k_{8}k_{9}}^{k_{10}}$$

$$a_{4} = \epsilon_{k_{3}k_{4}k_{7}k_{11}}$$

Diagram 52:

$$PO4.52 = \lim_{\tau \to \infty} \frac{(-1)^4}{(2!)^2} \sum_{k_i} O_{k_1 k_2 k_3 k_4}^{40} \Omega_{k_3 k_6 k_7 k_1}^{13} \Omega_{k_8 k_5 k_2 k_3}^{13} \Omega_{k_9 k_{10} k_8 k_6}^{22} \Omega_{k_9 k_{10} k_8 k_6}^{04} \Omega_{k_9 k_{10} k_7 k_4}^{04} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_4$$

Diagram 53:

$$PO4.53 = \lim_{\tau \to \infty} \frac{(-1)^4}{(2!)^2} \sum_{k_i} O_{k_1 k_2 k_3 k_4}^{40} \Omega_{k_5 k_6 k_7 k_8}^{40} \Omega_{k_6 k_5 k_1 k_2}^{13} \Omega_{k_1 0 k_9 k_6 k_3}^{13} \Omega_{k_{10} k_7 k_8 k_4}^{40} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_5 - \tau_5) \theta(\tau_5 -$$

Diagram 54:

$$PO4.54 = \lim_{\tau \to \infty} \frac{-(-1)^4}{(2!)^2} \sum_{k_i} O_{k_1 k_2 k_3 k_4}^{40} \Omega_{k_5 k_6 k_7 k_8}^{40} \Omega_{k_9 k_5 k_6 k_1}^{13} \Omega_{k_{10} k_9 k_7 k_2}^{40} \Omega_{k_{10} k_8 k_3 k_4}^{04} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_4$$

$$T6 = \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_3 + a_4)(a_3 + a_4)a_4}$$

$$a_1 = \epsilon^{k_5 k_6 k_7 k_8}$$

$$a_2 = \epsilon^{k_9}_{k_1 k_5 k_6}$$

$$a_3 = \epsilon^{k_{10}}_{k_2 k_7 k_9}$$

$$a_4 = \epsilon_{k_3 k_4 k_8 k_{10}}$$

$$(122)$$

Diagram 55:

$$PO4.55 = \lim_{\tau \to \infty} \frac{(-1)^4}{(2!)^3} \sum_{k_i} O_{k_1 k_2 k_3 k_4}^{40} \Omega_{k_5 k_6 k_7 k_1}^{13} \Omega_{k_8 k_5 k_2 k_3}^{13} \Omega_{k_2 k_1 h_8 k_4}^{22} \Omega_{k_3 k_1 h_8 k_4}^{04} \Omega_{k_3 k_1 h_8 k_5}^{10} \int_{0}^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_1)$$

 $a_4 = \epsilon_{k_6 k_7 k_9 k_{10}}$

Diagram 56:

$$PO4.56 = \lim_{\tau \to \infty} \frac{-(-1)^4}{(2!)^3} \sum_{k_i} O_{k_1 k_2 k_3 k_4}^{40} \Omega_{k_5 k_6 k_7 k_1}^{31} \Omega_{k_8 k_9 k_5 k_6}^{22} \Omega_{k_{10} k_8 k_9 k_2}^{13} \Omega_{k_{10} k_7 k_3 k_4}^{04} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_1) \theta(\tau_4$$

$$T6 = \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_3 + a_4)(a_3 + a_4)a_4}$$

$$a_1 = \epsilon_{k_5}^{k_5 k_6 k_7}$$

$$a_2 = \epsilon_{k_5 k_6}^{k_8 k_9}$$

$$a_3 = \epsilon_{k_2 k_8 k_9}^{k_{10}}$$

$$a_4 = \epsilon_{k_5 k_6 k_7}^{k_{10}}$$

$$a_4 = \epsilon_{k_5 k_6 k_7}^{k_{10}}$$

$$a_5 = \epsilon_{k_5 k_6 k_7}^{k_{10}}$$

$$a_6 = \epsilon_{k_5 k_6 k_7}^{k_{10}}$$

$$a_7 = \epsilon_{k_5 k_6 k_7}^{k_{10}}$$
(126)

Diagram 57:

$$PO4.57 = \lim_{\tau \to \infty} \frac{(-1)^4}{(2!)^3} \sum_{k_i} O_{k_1 k_2 k_3 k_4}^{40} \Omega_{k_5 k_6 k_7 k_8}^{40} \Omega_{k_9 k_5 k_6 k_1}^{13} \Omega_{k_{10} k_9 k_2 k_3}^{13} \Omega_{k_{10} k_7 k_8 k_4}^{04} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_1) \theta(\tau_4 -$$

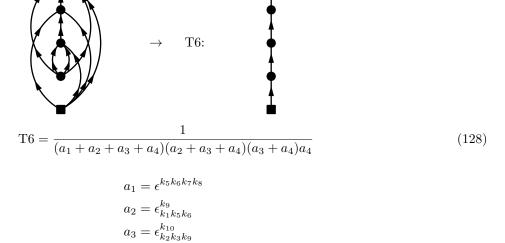


Diagram 58:

$$PO4.58 = \lim_{\tau \to \infty} \frac{-(-1)^4}{(2!)^3} \sum_{k_i} O_{k_1 k_2 k_3 k_4}^{40} \Omega_{k_5 k_6 k_1 k_2}^{22} \Omega_{k_7 k_8 k_5 k_3}^{22} \Omega_{k_9 k_{10} k_7 k_8}^{22} \Omega_{k_9 k_{10} k_6 k_4}^{40} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_1)^4 \int_0^{\tau_4} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_1)^4 \int_0^{\tau_4} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_1)^4 \int_0^{\tau_4} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_4 - \tau_1) \theta$$

$$a_1 = \epsilon_{k_1 k_2}^{k_5 k_6}$$

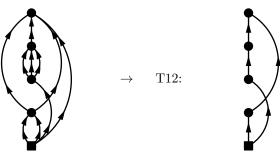
$$a_2 = \epsilon_{k_3 k_5}^{k_7 k_8}$$

$$a_3 = \epsilon_{k_7 k_8}^{k_9 k_{10}}$$

$$a_4 = \epsilon_{k_4 k_6 k_9 k_{10}}$$

Diagram 59:

$$PO4.59 = \lim_{\tau \to \infty} \frac{(-1)^4}{(2!)^2 (3!)} \sum_{k_i} O_{k_1 k_2 k_3 k_4}^{40} \Omega_{k_5 k_6 k_1 k_2}^{22} \Omega_{k_7 k_8 k_9 k_3}^{31} \Omega_{k_{10} k_7 k_8 k_9}^{13} \Omega_{k_{10} k_5 k_6 k_4}^{60} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) \theta(\tau_4 - \tau_3) \theta(\tau_4 - \tau_3) \theta(\tau_4 - \tau_4) \theta($$



$$T12 = \frac{1}{(a_1 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_4)a_4} + \frac{1}{(a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_4)a_4} + \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_2)(a_3 + a_1$$

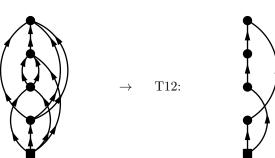
$$a_1 = \epsilon_{k_1 k_2}^{k_5 k_6}$$

$$a_2 = \epsilon_{k_3}^{k_7 k_8 k_9}$$

$$a_3 = \epsilon_{k_7 k_8 k_9}^{k_{10}}$$

$$a_4 = \epsilon_{k_4 k_5 k_6 k_{10}}$$

Diagram 60:



$$T12 = \frac{1}{(a_1 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_4)a_4} + \frac{1}{(a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_4)a_4} + \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_4)(a_3 + a_1 + a_3 + a_4)(a_3 + a_1 + a_2)(a_3 + a_1 + a_3 + a_4)(a_3 + a_1 + a_2)(a_3 + a_1 + a_3 + a_4)(a_3 + a_1 + a_2)(a_3 + a_1 + a_3 + a_4)(a_3 + a_1 + a_2)(a_3 + a_1 + a_2)(a_3 + a_1 + a_2)(a_3 + a_1 + a_2)(a_3 + a_2)(a_3 + a_2)(a_3 + a_1 + a_2)(a_3 + a_2)(a_3 + a_2)(a_3$$

$$a_1 = \epsilon_{k_1}^{k_5 k_6 k_7}$$

$$a_2 = \epsilon_{k_2 k_3}^{k_8 k_9}$$

$$a_3 = \epsilon_{k_4 k_8 k_9}^{k_{10}}$$

$$a_4 = \epsilon_{k_5 k_6 k_7 k_{10}}$$

Diagram 61:

$$PO4.61 = \lim_{\tau \to \infty} \frac{-(-1)^4}{(2!)^2 (3!)} \sum_{k_i} O_{k_1 k_2 k_3 k_4}^{40} \Omega_{k_5 k_6 k_7 k_8}^{40} \Omega_{k_5 k_6 k_7 k_1}^{04} \Omega_{k_9 k_{10} k_2 k_3}^{22} \Omega_{k_9 k_{10} k_8 k_4}^{04} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_3) e^{-\tau_1 k_2 k_3 k_4} \Omega_{k_5 k_6 k_7 k_8}^{40} \Omega_{k_5 k_6 k_7 k_8}^{40} \Omega_{k_5 k_6 k_7 k_1}^{40} \Omega_{k_9 k_{10} k_2 k_3}^{40} \Omega_{k_9 k_{10} k_8 k_4}^{40} \left[\frac{1}{\epsilon_{k_1 k_4 k_9 k_{10}}} \frac{1}{\epsilon_{k_1 k_4 k_9 k_{10}}} + \frac{1}{\epsilon_{k_1 k_2 k_3 k_4}} \frac{1}{\epsilon_{k_1 k_4 k_8 k_9 k_{10}}} \right]$$

$$(135)$$

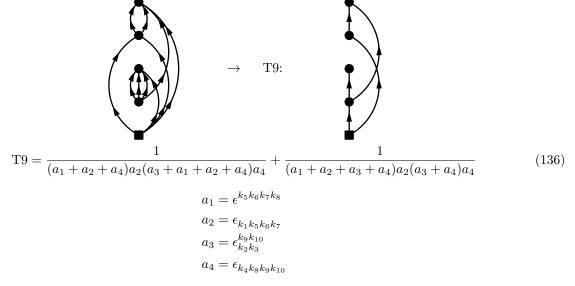


Diagram 62:

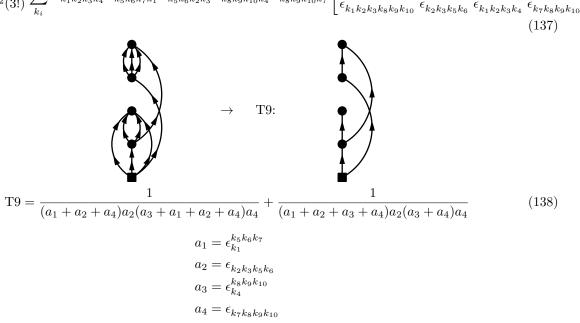


Diagram 63:

$$PO4.63 = \lim_{\tau \to \infty} \frac{-(-1)^4}{(2!)^3} \sum_{k_i} O_{k_1 k_2 k_3 k_4}^{40} \Omega_{k_5 k_6 k_7 k_8}^{60} \Omega_{k_5 k_6 k_1 k_2}^{04} \Omega_{k_5 k_6 k_1 k_2}^{22} \Omega_{k_5 k_1 k_2 k_3 k_4}^{00} \int_{k_5 k_6 k_1 k_2}^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_4$$

Diagram 64:

$$PO4.64 = \lim_{\tau \to \infty} \frac{(-1)^4}{(2!)^2(3!)} \sum_{k_i} O_{k_1 k_2 k_3 k_4}^{40} \Omega_{k_5 k_6 k_7 k_1}^{31} \Omega_{k_5 k_6 k_2 k_3}^{40} \Omega_{k_8 k_0 k_{10} k_7}^{31} \Omega_{k_8 k_0 k_{10} k_4}^{40} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_3) \epsilon_{k_5 k_6 k_7 k_4}^{40} \Omega_{k_5 k_6 k_7 k_4}^{40} \Omega_{k_5 k_6 k_7 k_4}^{40} \Omega_{k_8 k_0 k_{10} k_7}^{40} \Omega_{k_8 k_0 k_{10} k_4}^{40}$$

$$= \frac{(-1)^4}{(2!)^2(3!)} \sum_{k_i} \frac{O_{k_1 k_2 k_3 k_4}^{40} \Omega_{k_5 k_6 k_7 k_4}^{31} \Omega_{k_5 k_6 k_2 k_3}^{40} \Omega_{k_8 k_0 k_{10} k_4}^{40}}{\epsilon_{k_1 k_2 k_3 k_4} \epsilon_{k_2 k_3 k_5 k_6} \epsilon_{k_7 k_4} \epsilon_{k_4 k_8 k_9 k_{10}}}$$

$$\rightarrow T5:$$

$$T5 = \frac{1}{(a_1 + a_2 + a_3 + a_4) a_2 (a_3 + a_4) a_4}$$

$$a_1 = \epsilon_{k_5 k_6 k_7}^{k_5 k_6 k_7}$$

$$a_2 = \epsilon_{k_2 k_3 k_5 k_6}$$

$$a_3 = \epsilon_{k_7}^{k_5 k_6 k_{10}}$$

$$a_3 = \epsilon_{k_7}^{k_5 k_6 k_{10}}$$

Diagram 65:

$$PO4.65 = \lim_{\tau \to \infty} \frac{-(-1)^4}{(2!)^2 (3!)} \sum_{k_i} O_{k_1 k_2 k_3 k_4}^{40} \Omega_{k_5 k_6 k_7 k_8}^{40} \Omega_{k_5 k_6 k_7 k_1}^{62} \Omega_{k_9 k_{10} k_8 k_2}^{22} \Omega_{k_9 k_{10} k_3 k_4}^{64} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_3) \theta(\tau_4 - \tau_3) \theta(\tau_4 - \tau_4) \theta$$

$$T5 = \frac{1}{(a_1 + a_2 + a_3 + a_4)a_2(a_3 + a_4)a_4}$$

$$a_1 = \epsilon^{k_5 k_6 k_7 k_8}$$

$$a_2 = \epsilon_{k_1 k_5 k_6 k_7}$$

$$a_3 = \epsilon^{k_9 k_{10}}_{k_2 k_8}$$

$$a_4 = \epsilon_{k_3 k_4 k_9 k_{10}}$$

$$a_4 = \epsilon_{k_3 k_4 k_9 k_{10}}$$

$$(144)$$

Diagram 66:

$$PO4.66 = \lim_{\tau \to \infty} \frac{-(-1)^4}{(2!)^2(3!)} \sum_{k_i} O_{k_1 k_2 k_3 k_4}^{40} \Omega_{k_5 k_6 k_1 k_2}^{22} \Omega_{k_7 k_8 k_9 k_{10}}^{40} \Omega_{k_7 k_8 k_9 k_5}^{04} \Omega_{k_{10} k_6 k_3 k_4}^{04} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_1) \theta($$

$$T10 = \frac{1}{(a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)a_3a_4} + \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_3 + a_4)a_3a_4}$$

$$a_1 = \epsilon_{k_1k_2}^{k_5k_6}$$

$$a_2 = \epsilon_{k_7k_8k_9k_{10}}^{k_7k_8k_9}$$

$$a_3 = \epsilon_{k_5k_7k_8k_9}$$

$$a_4 = \epsilon_{k_3k_4k_6k_{10}}$$

$$(146)$$

Diagram 67:

$$PO4.67 = \lim_{\tau \to \infty} \frac{-(-1)^4}{2(2!)^3} \sum_{k_i} O_{k_1 k_2 k_3 k_4}^{40} \Omega_{k_5 k_6 k_7 k_8}^{40} \Omega_{k_9 k_{10} k_5 k_6}^{22} \Omega_{k_9 k_7 k_1 k_2}^{40} \Omega_{k_{10} k_8 k_3 k_4}^{44} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_4$$

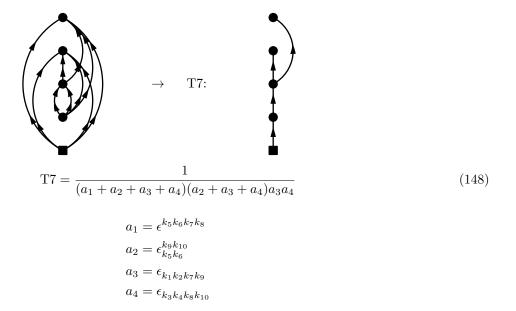
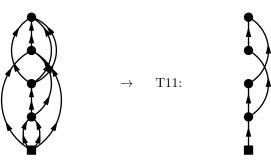


Diagram 68:

$$PO4.68 = \lim_{\tau \to \infty} \frac{-(-1)^4}{(2!)^2(3!)} \sum_{k_i} O_{k_1 k_2 k_3 k_4}^{40} \Omega_{k_5 k_6 k_1 k_2}^{22} \Omega_{k_7 k_8 k_9 k_5}^{31} \Omega_{k_{10} k_6 k_3 k_4}^{13} \Omega_{k_{10} k_7 k_8 k_9}^{04} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_2) \theta($$



$$T11 = \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_4)(a_3 + a_2 + a_4)a_4} + \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_3 + a_4)(a_3 + a_4)a_4}$$

$$a_1 = \epsilon_{k_1 k_2}^{k_5 k_6}$$

$$a_2 = \epsilon_{k_5}^{k_7 k_8 k_9}$$

$$a_3 = \epsilon_{k_3 k_4 k_6}^{k_{10}}$$

$$a_4 = \epsilon_{k_3 k_4 k_6}$$

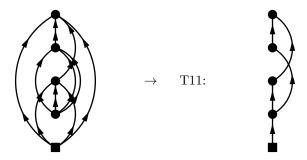
$$a_4 = \epsilon_{k_3 k_4 k_6}$$

$$a_4 = \epsilon_{k_3 k_4 k_6}$$

$$a_5 = \epsilon_{k_5 k_6 k_5}$$

Diagram 69:

$$PO4.69 = \lim_{\tau \to \infty} \frac{-(-1)^4}{(2!)^2 (3!)} \sum_{k_i} O_{k_1 k_2 k_3 k_4}^{40} \Omega_{k_5 k_6 k_7 k_8}^{40} \Omega_{k_9 k_5 k_1 k_2}^{13} \Omega_{k_{10} k_6 k_7 k_8}^{13} \Omega_{k_{10} k_9 k_3 k_4}^{04} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_2) \theta$$



$$T11 = \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_4)(a_3 + a_2 + a_4)a_4} + \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_3 + a_4)(a_3 + a_4)a_4}$$
 (152)

$$a_1 = \epsilon^{k_5 k_6 k_7 k_8}$$

$$a_2 = \epsilon_{k_1 k_2 k_5}^{k_9}$$

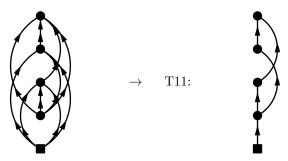
$$a_2 = \epsilon_{k_1 k_2 k_5}^{k_9}$$

$$a_3 = \epsilon_{k_6 k_7 k_8}^{k_{10}}$$

$$a_4 = \epsilon_{k_3 k_4 k_9 k_{10}}$$

Diagram 70:

$$PO4.70 = \lim_{\tau \to \infty} \frac{-(-1)^4}{2(2!)^3} \sum_{k_i} O_{k_1 k_2 k_3 k_4}^{40} \Omega_{k_5 k_6 k_7 k_8}^{40} \Omega_{k_9 k_5 k_1 k_2}^{13} \Omega_{k_{10} k_6 k_3 k_4}^{13} \Omega_{k_{10} k_9 k_7 k_8}^{14} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_4$$



$$T11 = \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_4)(a_3 + a_2 + a_4)a_4} + \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_3 + a_4)(a_3 + a_4)a_4}$$
(154)

$$a_1 = \epsilon^{k_5 k_6 k_7 k_8}$$

$$a_2 = \epsilon_{k_1 k_2 k}^{k_9}$$

$$a_2 = \epsilon_{k_1 k_2 k_5}^{k_9}$$
$$a_3 = \epsilon_{k_3 k_4 k_6}^{k_{10}}$$

$$a_4 = \epsilon_{k_7 k_8 k_9 k_{10}}$$

Diagram 71:

$$PO4.71 = \lim_{\tau \to \infty} \frac{(-1)^4}{(2!)^3} \sum_{k_i} O_{k_1 k_2 k_3 k_4}^{40} \Omega_{k_5 k_6 k_1 k_2}^{22} \Omega_{k_7 k_8 k_9 k_5}^{31} \Omega_{k_{10} k_7 k_3 k_4}^{13} \Omega_{k_{10} k_7 k_3 k_4}^{04} \Omega_{k_{10} k_8 k_9 k_6}^{04} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_1) \theta(\tau_4$$

$$T6 = \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_3 + a_4)(a_3 + a_4)a_4}$$

$$a_1 = \epsilon_{k_1 k_2}^{k_5 k_6}$$

$$a_2 = \epsilon_{k_5}^{k_7 k_8 k_9}$$

$$a_3 = \epsilon_{k_3 k_4 k_7}^{k_{10}}$$

$$a_4 = \epsilon_{k_6 k_8 k_6 k_{10}}$$

$$a_4 = \epsilon_{k_6 k_8 k_6 k_{10}}$$

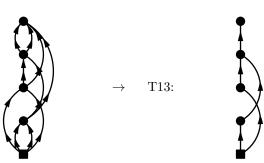
$$a_4 = \epsilon_{k_6 k_8 k_6 k_{10}}$$

$$a_5 = \epsilon_{k_6 k_8 k_6 k_{10}}^{k_{10}}$$

$$a_6 = \epsilon_{k_6 k_8 k_6 k_{10}}^{k_{10}}$$

Diagram 72:

$$PO4.72 = \lim_{\tau \to \infty} \frac{-(-1)^4}{2(2!)^3} \sum_{k_i} O_{k_1 k_2 k_3 k_4}^{40} \Omega_{k_5 k_6 k_1 k_2}^{22} \Omega_{k_7 k_8 k_3 k_4}^{22} \Omega_{k_9 k_{10} k_7 k_5}^{22} \Omega_{k_9 k_{10} k_8 k_6}^{40} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_1) \theta(\tau_4$$



$$T13 = \frac{1}{(a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_4)a_4} + \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_3 + a_4)(a_3 + a_4)a_4}$$

$$a_1 = \epsilon_{k_1 k_2}^{k_5 k_6}$$

$$a_2 = \epsilon_{k_3 k_4}^{k_7 k_8}$$

$$a_3 = \epsilon_{k_5 k_7}^{k_9 k_{10}}$$

$$a_4 = \epsilon_{k_6 k_8 k_9 k_{10}}$$

$$a_4 = \epsilon_{k_6 k_8 k_9 k_{10}}$$

$$a_4 = \epsilon_{k_6 k_8 k_9 k_{10}}$$

$$a_5 = \epsilon_{k_6 k_8 k_9 k_{10}}$$

$$a_6 = \epsilon_{k_6 k_8 k_9 k_{10}}$$

Diagram 73:

$$PO4.73 = \lim_{\tau \to \infty} \frac{-(-1)^4}{(2!)^3} \sum_{k_i} O_{k_1 k_2 k_3 k_4}^{40} \Omega_{k_5 k_6 k_1 k_2}^{22} \Omega_{k_7 k_8 k_9 k_5}^{31} \Omega_{k_{10} k_7 k_8 k_6}^{13} \Omega_{k_{10} k_7 k_8 k_4}^{44} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_3$$

$$T6 = \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_3 + a_4)(a_3 + a_4)a_4}$$

$$a_1 = \epsilon_{k_1 k_2}^{k_5 k_6}$$

$$a_2 = \epsilon_{k_5}^{k_7 k_8 k_9}$$

$$a_3 = \epsilon_{k_6 k_7 k_8}^{k_{10}}$$

$$a_4 = \epsilon_{k_3 k_4 k_9 k_{10}}$$

$$(160)$$

Diagram 74:

PO4.74 =
$$\lim_{\tau \to \infty} \frac{(-1)^4}{(2!)^5} \sum_{k_i} O_{k_1 k_2 k_3 k_4}^{40} \Omega_{k_5 k_6 k_1 k_2}^{22} \Omega_{k_7 k_8 k_5 k_6}^{22} \Omega_{k_5 k_6 k_1 k_2}^{22} \Omega_{k_7 k_8 k_5 k_6}^{22} \Omega_{k_6 k_1 k_7 k_8}^{22} \Omega_{k_6 k_1 k_2 k_3 k_4}^{22} \Omega_{k_7 k_8 k_5 k_6}^{22} \Omega_{k_5 k_6 k_1 k_2}^{22} \Omega_{k_7 k_8 k_5 k_6}^{22} \Omega_{k_7 k_8}^{22} \Omega_{k_7 k_8}^{22}$$

Diagram 75:

Diagram 75:
$$PO4.75 = \lim_{\tau \to \infty} \frac{(-1)^4}{(2!)^3} \sum_{k_i} O_{k_1 k_2 k_3 k_4}^{40} \Omega_{k_5 k_6 k_7 k_8}^{40} \Omega_{k_9 k_5 k_1 k_2}^{13} \Omega_{k_{10} k_9 k_6 k_7}^{13} \Omega_{k_{10} k_8 k_3 k_4}^{40} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_5 -$$

$$T6 = \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_3 + a_4)(a_3 + a_4)a_4}$$

$$a_1 = \epsilon^{k_5 k_6 k_7 k_8}$$

$$a_2 = \epsilon^{k_9}_{k_1 k_2 k_5}$$

$$a_3 = \epsilon^{k_{10}}_{k_6 k_7 k_9}$$

$$a_4 = \epsilon_{k_3 k_4 k_8 k_{10}}$$

$$(164)$$

Diagram 76:

$$PO4.76 = \lim_{\tau \to \infty} \frac{(-1)^4}{(2!)^2(3!)} \sum_{k_i} O_{k_1 k_2 k_3 k_4}^{40} \Omega_{k_2 k_6 k_1 k_2}^{22} \Omega_{k_7 k_5 k_3 k_4}^{13} \Omega_{k_8 k_9 k_{10} k_7}^{34} \Omega_{k_8 k_9 k_{10} k_6}^{04} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_1) \theta(\tau$$

Diagram 77:

$$PO4.77 = \lim_{\tau \to \infty} \frac{(-1)^4}{(2!)^2(3!)} \sum_{k_i} O_{k_1 k_2 k_3 k_4}^{40} \Omega_{k_5 k_6 k_7 k_8}^{40} \Omega_{k_9 k_5 k_1 k_2}^{13} \Omega_{k_{10} k_9 k_3 k_4}^{13} \Omega_{k_{10} k_6 k_7 k_8}^{04} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_1) \theta(\tau$$

$$a_{1} = \epsilon^{k_{5}k_{6}k_{7}k_{8}}$$

$$a_{2} = \epsilon^{k_{9}}_{k_{1}k_{2}k_{5}}$$

$$a_{3} = \epsilon^{k_{10}}_{k_{3}k_{4}k_{9}}$$

$$a_{4} = \epsilon_{k_{6}k_{7}k_{8}k_{10}}$$

Diagram 78:

$$PO4.78 = \lim_{\tau \to \infty} \frac{(-1)^4}{(2!)^2 (3!)} \sum_{k_i} O_{k_1 k_2 k_3 k_4}^{40} \Omega_{k_5 k_6 k_7 k_8}^{40} \Omega_{k_9 k_5 k_6 k_7}^{13} \Omega_{k_{10} k_9 k_{1k_2}}^{13} \Omega_{k_{10} k_9 k_1 k_2}^{04} \Omega_{k_{10} k_8 k_3 k_4}^{04} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_1)$$

 $a_2 = \epsilon_{k_5 k_6 k_7}^{k_9}$ $a_3 = \epsilon_{k_1 k_2 k_9}^{k_{10}}$

Diagram 79:

$$PO4.79 = \lim_{\tau \to \infty} \frac{(-1)^4}{(2!)^2 (3!)} \sum_{k_i} O_{k_1 k_2 k_3 k_4}^{40} \Omega_{k_5 k_6 k_1 k_2}^{22} \Omega_{k_7 k_8 k_9 k_5}^{31} \Omega_{k_{10} k_7 k_8 k_9}^{13} \Omega_{k_{10} k_7 k_8 k_9}^{04} \Omega_{k_{10} k_6 k_3 k_4}^{04} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_1)$$

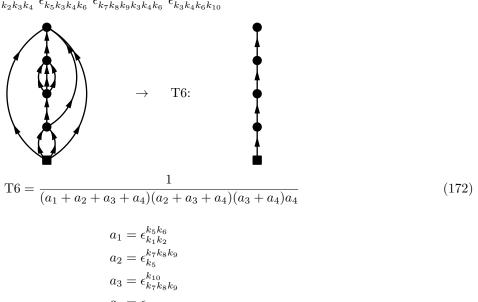
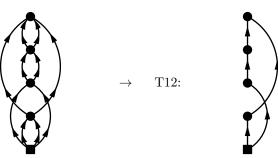


Diagram 80:

$$PO4.80 = \lim_{\tau \to \infty} \frac{(-1)^4}{(2!)^5} \sum_{k_i} O_{k_1 k_2 k_3 k_4}^{40} \Omega_{k_5 k_6 k_1 k_2}^{22} \Omega_{k_7 k_8 k_3 k_4}^{22} \Omega_{k_9 k_{10} k_7 k_8}^{22} \Omega_{k_9 k_{10} k_5 k_6}^{40} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_4} d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_4} d\tau_5 \theta(\tau_4 - \tau_1)^4 \int_{k_1 k_2 k_3 k_4} O_{k_5 k_6 k_1 k_2}^{22} \Omega_{k_7 k_8 k_3 k_4}^{22} \Omega_{k_9 k_{10} k_7 k_8}^{22} \Omega_{k_9 k_{10} k_5 k_6}^{40} \left[\frac{1}{\epsilon_{k_1 k_2 k_9 k_{10}}} \frac{1}{\epsilon_{k_1 k_2 k_3 k_4}} \frac{1}{\epsilon_{k_1 k_2 k_7 k_8}} \frac{1}{\epsilon_{k_1 k_2 k_7 k_7 k_7}} \frac{1}{\epsilon_{k_1 k_2 k_7 k_7 k_7}} \frac{1}{\epsilon_{k_1 k_2 k_7 k_7 k_7}} \frac{1}{\epsilon_{k_1 k_2$$



$$T12 = \frac{1}{(a_1 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_4)a_4} + \frac{1}{(a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_4)a_4} + \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_4)a_4} + \frac{1}{(a_1 + a_3 + a_4)(a_3 + a_1 + a_3 + a_4)(a_3 + a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_3 + a_4)(a_3 + a_1 + a_3 + a_4)(a_3 + a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_2)(a_3 + a_1 + a_3 + a_4)(a_3 + a_1 + a_2)(a_3 + a_1 + a_2)(a_3 + a_1 + a_2)(a_3$$

$$a_1 = \epsilon_{k_1 k_2}^{k_5 k_6}$$

$$a_2 = \epsilon_{k_3 k_4}^{k_7 k_8}$$

$$a_3 = \epsilon_{k_7 k_8}^{k_9 k_{10}}$$

$$a_3 = \epsilon_{k_7 k_8}^{k_9 k_{10}}$$

$$a_4 = \epsilon_{k_5 k_6 k_9 k_{10}}$$

Diagram 81:

$$PO4.81 = \lim_{\tau \to \infty} \frac{(-1)^4}{(2!)^5} \sum_{k_i} O_{k_1 k_2 k_3 k_4}^{40} \Omega_{k_5 k_6 k_7 k_8}^{40} \Omega_{k_5 k_6 k_1 k_2}^{04} \Omega_{k_9 k_{10} k_3 k_4}^{22} \Omega_{k_9 k_{10} k_7 k_8}^{04} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_3) e^{-\tau_4} d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_3) e^{-\tau_4} d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_3) e^{-\tau_4} d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_3) e^{-\tau_4} d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_3) e^{-\tau_4} d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_2) e^{-\tau_4} d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_2) e^{-\tau_4} d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_2) e^{-\tau_4} d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_2)$$

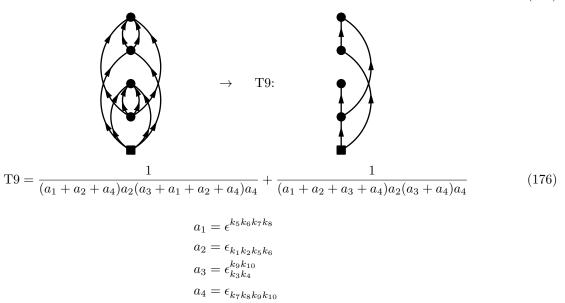


Diagram 82:

 $a_4 = \epsilon_{k_3 k_4 k_9 k_{10}}$

2.2 Two-body canonical diagrams for a generic operator only

Diagram 83:

$$PO4.83 = \lim_{\tau \to \infty} \frac{(-1)^4}{(2!)^3} \sum_{k_i} O_{k_1 k_2}^{20} \Omega_{k_3 k_4 k_5 k_6}^{40} \Omega_{k_7 k_8 k_9 k_3}^{31} \Omega_{k_7 k_4 k_1 k_2}^{04} \Omega_{k_8 k_9 k_5 k_6}^{40} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_3 - \tau_2) \theta(\tau_3 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_3 -$$

 $a_4 = \epsilon_{k_5 k_6 k_8 k_9}$

Diagram 84:

$$PO4.84 = \lim_{\tau \to \infty} \frac{(-1)^4}{(2!)^2 (3!)} \sum_{k_i} O_{k_1 k_2}^{20} \Omega_{k_3 k_4 k_5 k_6}^{40} \Omega_{k_7 k_8 k_9 k_3}^{31} \Omega_{k_7 k_8 k_1 k_2}^{04} \Omega_{k_9 k_4 k_5 k_6}^{04} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_1) \theta(\tau$$

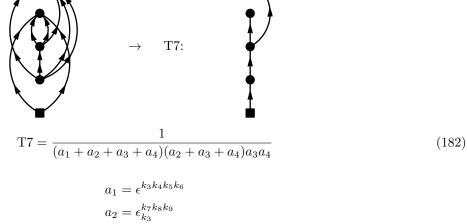
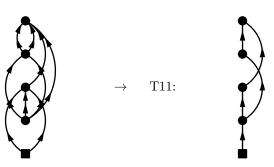


Diagram 85:

$$PO4.85 = \lim_{\tau \to \infty} \frac{(-1)^4}{(2!)^3} \sum_{k_i} O_{k_1 k_2}^{20} \Omega_{k_3 k_4 k_5 k_6}^{40} \Omega_{k_7 k_3 k_1 k_2}^{13} \Omega_{k_8 k_9 k_4 k_5}^{22} \Omega_{k_8 k_9 k_7 k_6}^{04} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4 -$$



 $a_3 = \epsilon_{k_1 k_2 k_7 k_8}$ $a_4 = \epsilon_{k_4 k_5 k_6 k_9}$

$$T11 = \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_4)(a_3 + a_2 + a_4)a_4} + \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_3 + a_4)(a_3 + a_4)a_4}$$

$$a_1 = \epsilon^{k_3 k_4 k_5 k_6}$$

$$a_2 = \epsilon^{k_7}_{k_1 k_2 k_3}$$

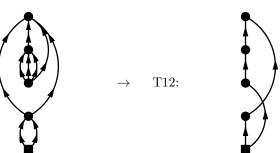
$$a_3 = \epsilon^{k_8 k_9}_{k_4 k_5}$$

$$a_4 = \epsilon_{k_6 k_7 k_8 k_9}$$

$$a_4 = \epsilon_{k_6 k_7 k_8 k_9}$$
(184)

Diagram 86:

$$PO4.86 = \lim_{\tau \to \infty} \frac{(-1)^4}{(2!)^2 (3!)} \sum_{k_i} O_{k_1 k_2}^{20} \Omega_{k_3 k_4 k_1 k_2}^{22} \Omega_{k_5 k_6 k_7 k_8}^{40} \Omega_{k_9 k_5 k_6 k_7}^{13} \Omega_{k_9 k_8 k_3 k_4}^{04} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_2) \theta(\tau$$



$$T12 = \frac{1}{(a_1 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_4)a_4} + \frac{1}{(a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_4)a_4} + \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_4)a_4} + \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_3 + a_4)a_4} + \frac{1}{(a_1 + a_3 + a_4)(a_3 + a_4)(a_3 + a_4)(a_3 + a_4)(a_3 + a_4)(a_3 + a_4)(a_4 + a_4)(a_4$$

$$a_1 = \epsilon_{k_1 k_2}^{k_3 k_4}$$

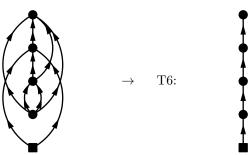
$$a_2 = \epsilon^{k_5 k_6 k_7 k_8}$$

$$a_3 = \epsilon_{k_5 k_6 k_7}^{k_9}$$

$$a_4 = \epsilon_{k_3 k_4 k_8 k_9}$$

Diagram 87:

$$PO4.87 = \lim_{\tau \to \infty} \frac{(-1)^4}{(2!)^3} \sum_{k_i} O_{k_1 k_2}^{20} \Omega_{k_3 k_4 k_5 k_6}^{40} \Omega_{k_7 k_8 k_3 k_4}^{22} \Omega_{k_9 k_7 k_1 k_2}^{13} \Omega_{k_9 k_8 k_5 k_6}^{04} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4 -$$



$$T6 = \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_3 + a_4)(a_3 + a_4)a_4}$$

$$a_1 = \epsilon^{k_3 k_4 k_5 k_6}$$

$$a_2 = \epsilon^{k_7 k_8}_{k_3 k_4}$$

$$a_3 = \epsilon^{k_9}_{k_1 k_2 k_7}$$

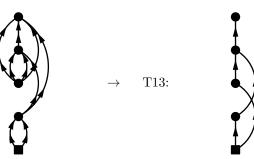
$$a_4 = \epsilon^{k_9}$$

Diagram 88:

$$PO4.88 = \lim_{\tau \to \infty} \frac{(-1)^4}{(2!)^3} \sum_{k_i} O_{k_1 k_2}^{20} \Omega_{k_3 k_4 k_1 k_2}^{22} \Omega_{k_5 k_6 k_7 k_3}^{31} \Omega_{k_5 k_6 k_7 k_3}^{22} \Omega_{k_8 k_9 k_5 k_6}^{84} \Omega_{k_8 k_9 k_7 k_4}^{94} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau$$

Diagram 89:

$$PO4.89 = \lim_{\tau \to \infty} \frac{(-1)^4}{(2!)^3} \sum_{k_i} O_{k_1 k_2}^{20} \Omega_{k_3 k_4 k_1 k_2}^{22} \Omega_{k_5 k_6 k_7 k_8}^{40} \Omega_{k_9 k_5 k_6 k_3}^{13} \Omega_{k_9 k_7 k_8 k_4}^{04} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4 -$$



 $a_4 = \epsilon_{k_4 k_7 k_8 k_9}$

$$T13 = \frac{1}{(a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_4)a_4} + \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_3 + a_4)(a_3 + a_4)a_4}$$

$$a_1 = \epsilon_{k_1 k_2}^{k_3 k_4}$$

$$a_2 = \epsilon_{k_5 k_6 k_7 k_8}^{k_9}$$

$$a_3 = \epsilon_{k_3 k_5 k_6}^{k_9}$$

$$a_4 = \epsilon_{k_4 k_7 k_8 k_9}$$

$$(192)$$

Diagram 90:

$$PO4.90 = \lim_{\tau \to \infty} \frac{(-1)^4}{(2!)^3} \sum_{k_i} O_{k_1 k_2}^{20} \Omega_{k_3 k_4 k_5 k_6}^{40} \Omega_{k_7 k_8 k_3 k_4}^{22} \Omega_{k_3 k_7 k_5 k_6}^{40} \Omega_{k_9 k_8 k_1 k_2}^{40} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 -$$

 $a_4 = \epsilon_{k_1 k_2 k_8 k_6}$

Diagram 91:

Diagram 92:

$$PO4.92 = \lim_{\tau \to \infty} \frac{(-1)^4}{(2!)^2 (3!)} \sum_{k_i} O_{k_1 k_2}^{20} \Omega_{k_3 k_4 k_1 k_2}^{22} \Omega_{k_5 k_6 k_3 k_4}^{22} \Omega_{k_7 k_8 k_9 k_5}^{31} \Omega_{k_7 k_8 k_9 k_6}^{04} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_2) \theta(\tau$$

$$T6 = \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_3 + a_4)(a_3 + a_4)a_4}$$

$$a_1 = \epsilon_{k_1 k_2}^{k_3 k_4}$$

$$a_2 = \epsilon_{k_3 k_4}^{k_5 k_6}$$

$$a_3 = \epsilon_{k_5}^{k_7 k_8 k_9}$$

$$a_4 = \epsilon_{k_5 k_5}$$

$$a_4 = \epsilon_{k_5 k_5}$$

$$a_5 = \epsilon_{k_5 k_5}^{k_5 k_6}$$

Diagram 93:

$$PO4.93 = \lim_{\tau \to \infty} \frac{(-1)^4}{(2!)^2(3!)} \sum_{k_i} O_{k_1 k_2}^{20} \Omega_{k_1 k_2}^{40} \Omega_{k_3 k_4 k_5 k_6}^{13} \Omega_{k_7 k_3 k_4 k_5}^{22} \Omega_{k_8 k_9 k_7 k_6}^{20} \Omega_{k_8 k_9 k_1 k_2}^{04} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_1)$$

Diagram 94:

$$PO4.94 = \lim_{\tau \to \infty} \frac{(-1)^4}{(2!)^2(3!)} \sum_{k_i} O_{k_1 k_2}^{20} \Omega_{k_3 k_4 k_5 k_6}^{40} \Omega_{k_7 k_8 k_1 k_2}^{22} \Omega_{k_9 k_7 k_8 k_3}^{13} \Omega_{k_9 k_4 k_5 k_6}^{04} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_1) \theta(\tau_$$

 $a_4 = \epsilon_{k_1 k_2 k_8 k_5}$

$$T13 = \frac{1}{(a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_4)a_4} + \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_3 + a_4)(a_3 + a_4)a_4}$$

$$a_1 = \epsilon^{k_3 k_4 k_5 k_6}$$

$$a_2 = \epsilon^{k_7 k_8}_{k_1 k_2}$$

$$a_3 = \epsilon^{k_9}_{k_3 k_7 k_8}$$

$$a_4 = \epsilon_{k_4 k_5 k_6 k_9}$$

$$a_4 = \epsilon_{k_4 k_5 k_6 k_9}$$

$$(202)$$

Diagram 95:

Diagram 96:

$$PO4.96 = \lim_{\tau \to \infty} \frac{(-1)^4}{(2!)^3} \sum_{k_i} O_{k_1 k_2}^{20} \Omega_{k_3 k_4 k_5 k_6}^{40} \Omega_{k_7 k_3 k_1 k_2}^{13} \Omega_{k_8 k_9 k_7 k_4}^{22} \Omega_{k_8 k_9 k_5 k_6}^{40} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_3 - \tau_2$$

$$T6 = \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_3 + a_4)(a_3 + a_4)a_4}$$

$$a_1 = \epsilon^{k_3 k_4 k_5 k_6}$$

$$a_2 = \epsilon^{k_7}_{k_1 k_2 k_3}$$

$$a_3 = \epsilon^{k_8 k_9}_{k_4 k_7}$$

$$a_4 = \epsilon_{k_5 k_6 k_8 k_9}$$

$$(206)$$

Diagram 97:

$$PO4.97 = \lim_{\tau \to \infty} \frac{(-1)^4}{(2!)^2(3!)} \sum_{k_i} O_{k_1 k_2}^{20} \Omega_{k_3 k_4 k_5 k_6}^{40} \Omega_{k_3 k_4 k_1 k_2}^{41} \Omega_{k_7 k_8 k_9 k_5}^{31} \Omega_{k_7 k_8 k_9 k_5}^{04} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_$$

 $a_4 = \epsilon_{k_6 k_7 k_8 k_5}$

Diagram 98:

$$PO4.98 = \lim_{\tau \to \infty} \frac{(-1)^4}{(2!)^3} \sum_{k_i} O_{k_1 k_2}^{20} \Omega_{k_3 k_4 k_5 k_1}^{31} \Omega_{k_6 k_7 k_8 k_9}^{40} \Omega_{k_6 k_7 k_8 k_9}^{04} \Omega_{k_6 k_7 k_3 k_4}^{04} \Omega_{k_8 k_9 k_5 k_2}^{40} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau$$

$$T10 = \frac{1}{(a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)a_3a_4} + \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_3 + a_4)a_3a_4}$$
(210)

$$a_{1} = \epsilon_{k_{1}}^{k_{3}k_{4}k_{5}}$$

$$a_{2} = \epsilon^{k_{6}k_{7}k_{8}k_{9}}$$

$$a_{3} = \epsilon_{k_{3}k_{4}k_{6}k_{7}}$$

$$a_{4} = \epsilon_{k_{2}k_{5}k_{8}k_{9}}$$

Diagram 99:

$$PO4.99 = \lim_{\tau \to \infty} \frac{-(-1)^4}{(2!)(3!)} \sum_{k_i} O_{k_1 k_2}^{20} \Omega_{k_3 k_4 k_5 k_1}^{31} \Omega_{k_6 k_7 k_8 k_9}^{40} \Omega_{k_6 k_7 k_8 k_3}^{04} \Omega_{k_9 k_4 k_5 k_2}^{04} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_1) \theta(\tau_4$$

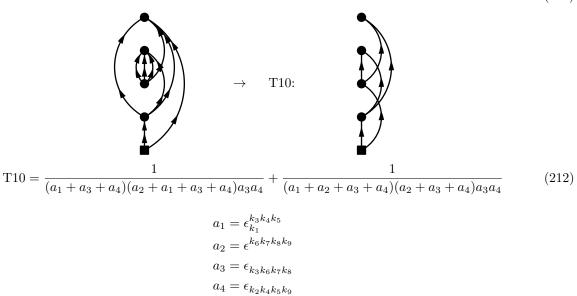


Diagram 100:

$$PO4.100 = \lim_{\tau \to \infty} \frac{(-1)^4}{(2!)^2} \sum_{k_i} O_{k_1 k_2}^{20} \Omega_{k_3 k_4 k_5 k_6}^{40} \Omega_{k_7 k_8 k_9 k_3}^{31} \Omega_{k_7 k_8 k_4 k_1}^{04} \Omega_{k_9 k_5 k_6 k_2}^{40} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_3 -$$

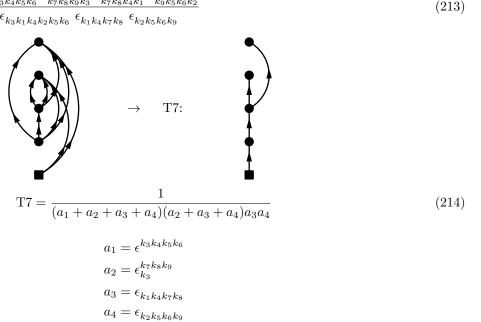
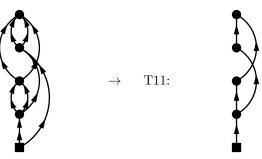


Diagram 101:

$$PO4.101 = \lim_{\tau \to \infty} \frac{(-1)^4}{(2!)^3} \sum_{k_i} O_{k_1 k_2}^{20} \Omega_{k_3 k_4 k_5 k_1}^{31} \Omega_{k_6 k_7 k_3 k_4}^{22} \Omega_{k_8 k_9 k_5 k_2}^{04} \Omega_{k_8 k_9 k_6 k_7}^{04} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4 -$$



$$T11 = \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_4)(a_3 + a_2 + a_4)a_4} + \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_3 + a_4)(a_3 + a_4)a_4}$$
(216)

$$a_1 = \epsilon_{k_1}^{k_3 k_4 k_5}$$

$$a_2 = \epsilon_{k_3 k_4}^{k_6 k_7}$$

$$a_3 = \epsilon_{k_2 k_5}^{k_8 k_9}$$

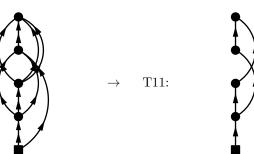
$$a_2 = \epsilon_{k_3 k_4}^{k_6 k_7}$$

$$a_3 = \epsilon_{k_2 k_5}^{k_8 k_9}$$

$$a_4 = \epsilon_{k_6 k_7 k_8 k_9}$$

Diagram 102:

$$PO4.102 = \lim_{\tau \to \infty} \frac{-(-1)^4}{(2!)(3!)} \sum_{k_i} O_{k_1 k_2}^{20} \Omega_{k_3 k_4 k_5 k_1}^{31} \Omega_{k_6 k_7 k_8 k_3}^{31} \Omega_{k_9 k_4 k_5 k_2}^{13} \Omega_{k_9 k_4 k_5 k_2}^{04} \Omega_{k_9 k_6 k_7 k_8}^{04} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4$$



$$T11 = \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_4)(a_3 + a_2 + a_4)a_4} + \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_3 + a_4)(a_3 + a_4)a_4}$$
(218)

$$a_1 = \epsilon_L^{k_3 k_4 k_5}$$

$$a_2 = \epsilon_{k_3}^{k_6 k_7 k_8}$$

$$a_1 = \epsilon_{k_1}^{k_3 k_4 k_5}$$

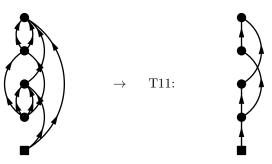
$$a_2 = \epsilon_{k_3}^{k_6 k_7 k_8}$$

$$a_3 = \epsilon_{k_2 k_4 k_5}^{k_9}$$

$$a_4 = \epsilon_{k_6 k_7 k_8 k_9}$$

Diagram 103:

$$PO4.103 = \lim_{\tau \to \infty} \frac{(-1)^4}{(2!)^3} \sum_{k_i} O_{k_1 k_2}^{20} \Omega_{k_3 k_4 k_5 k_6}^{40} \Omega_{k_7 k_3 k_4 k_1}^{13} \Omega_{k_8 k_9 k_5 k_6}^{22} \Omega_{k_8 k_9 k_7 k_2}^{60} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4 -$$



$$T11 = \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_4)(a_3 + a_2 + a_4)a_4} + \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_3 + a_4)(a_3 + a_4)a_4}$$
(220)

$$a_1 = \epsilon^{k_3 k_4 k_5 k_6}$$

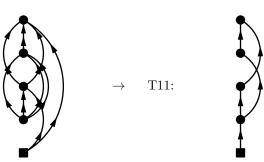
$$a_2 = \epsilon_{k_1 k_3 k_4}^{k_7}$$
$$a_3 = \epsilon_{k_5 k_6}^{k_8 k_9}$$

$$a_3 = \epsilon_k^{k_8 k_9}$$

$$a_4 = \epsilon_{k_2 k_7 k_8 k_6}$$

Diagram 104:

$$PO4.104 = \lim_{\tau \to \infty} \frac{-(-1)^4}{(2!)(3!)} \sum_{k_i} O_{k_1 k_2}^{20} \Omega_{k_3 k_4 k_5 k_6}^{40} \Omega_{k_7 k_8 k_3 k_1}^{22} \Omega_{k_9 k_4 k_5 k_6}^{10} \Omega_{k_9 k_7 k_8 k_2}^{04} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_4) \theta(\tau_$$



$$T11 = \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_4)(a_3 + a_2 + a_4)a_4} + \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_3 + a_4)(a_3 + a_4)a_4}$$
(222)

$$a_1 = \epsilon^{k_3 k_4 k_5 k_6}$$

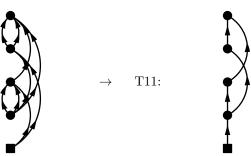
$$a_2 = \epsilon_{k_1 k_3}^{k_7 k_8}$$

$$a_3 = \epsilon_{k_4 k_5 k_6}^{k_9}$$

$$a_4 = \epsilon_{k_2 k_7 k_8 k_9}$$

Diagram 105:

$$PO4.105 = \lim_{\tau \to \infty} \frac{-(-1)^4}{(2!)^2} \sum_{k_i} O_{k_1 k_2}^{20} \Omega_{k_3 k_4 k_5 k_6}^{40} \Omega_{k_7 k_3 k_4 k_1}^{13} \Omega_{k_8 k_9 k_5 k_2}^{22} \Omega_{k_8 k_9 k_7 k_6}^{04} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_4$$



$$T11 = \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_4)(a_3 + a_2 + a_4)a_4} + \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_3 + a_4)(a_3 + a_4)a_4}$$

$$a_1 = \epsilon^{k_3 k_4 k_5 k_6}$$

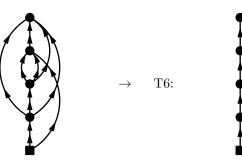
$$a_2 = \epsilon^{k_7}_{k_1 k_3 k_4}$$

$$a_3 = \epsilon^{k_8 k_9}_{k_2 k_5}$$

$$(224)$$

Diagram 106:

$$PO4.106 = \lim_{\tau \to \infty} \frac{-(-1)^4}{(2!)^2} \sum_{k_i} O_{k_1 k_2}^{20} \Omega_{k_3 k_4 k_5 k_1}^{31} \Omega_{k_6 k_7 k_8 k_3}^{13} \Omega_{k_9 k_6 k_7 k_2}^{13} \Omega_{k_9 k_8 k_4 k_5}^{04} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_1) \theta(\tau_1) \theta(\tau_1) \theta(\tau_1$$



$$T6 = \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_3 + a_4)(a_3 + a_4)a_4}$$

$$a_1 = \epsilon_{k_1}^{k_3 k_4 k_5}$$

$$a_2 = \epsilon_{k_3}^{k_6 k_7 k_8}$$

$$a_3 = \epsilon_{k_2 k_6 k_7}^{k_9}$$

$$a_4 = \epsilon_{k_4 k_5 k_8 k_9}$$

$$(226)$$

Diagram 107:

$$PO4.107 = \lim_{\tau \to \infty} \frac{(-1)^4}{(2!)^2} \sum_{k_i} O_{k_1 k_2}^{20} \Omega_{k_3 k_4 k_5 k_1}^{31} \Omega_{k_6 k_7 k_3 k_4}^{22} \Omega_{k_6 k_7 k_3 k_4}^{22} \Omega_{k_8 k_9 k_6 k_2}^{20} \Omega_{k_8 k_9 k_7 k_5}^{07} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 -$$

 $a_4 = \epsilon_{k_z k_z k_o k_e}$

Diagram 108:

$$PO4.108 = \lim_{\tau \to \infty} \frac{-(-1)^4}{(2!)} \sum_{k_i} O_{k_1 k_2}^{20} \Omega_{k_3 k_4 k_5 k_1}^{31} \Omega_{k_6 k_7 k_3 k_2}^{22} \Omega_{k_8 k_9 k_6 k_4}^{22} \Omega_{k_8 k_9 k_7 k_5}^{07} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_4 -$$

Diagram 109:

$$PO4.109 = \lim_{\tau \to \infty} \frac{-(-1)^4}{(2!)} \sum_{k_i} O_{k_1 k_2}^{20} \Omega_{k_3 k_4 k_5 k_6}^{40} \Omega_{k_7 k_8 k_3 k_1}^{22} \Omega_{k_9 k_7 k_4 k_2}^{13} \Omega_{k_9 k_7 k_4 k_5}^{04} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_4 -$$

$$T6 = \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_3 + a_4)(a_3 + a_4)a_4}$$

$$a_1 = \epsilon^{k_3 k_4 k_5 k_6}$$

$$a_2 = \epsilon^{k_7 k_8}_{k_1 k_3}$$

$$a_3 = \epsilon^{k_9}_{k_2 k_4 k_7}$$

$$a_4 = \epsilon_{k_5 k_6 k_8 k_9}$$

$$(232)$$

Diagram 110:

$$PO4.110 = \lim_{\tau \to \infty} \frac{-(-1)^4}{(2!)} \sum_{k_i} O_{k_1 k_2}^{20} \Omega_{k_3 k_4 k_5 k_1}^{31} \Omega_{k_6 k_7 k_8 k_3}^{31} \Omega_{k_6 k_7 k_8 k_3}^{13} \Omega_{k_6 k_6 k_4 k_2}^{13} \Omega_{k_6 k_7 k_8 k_5}^{07} \int_{0}^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_4 -$$

Diagram 111:

$$PO4.111 = \lim_{\tau \to \infty} \frac{-(-1)^4}{(2!)} \sum_{k_i} O_{k_1 k_2}^{20} \Omega_{k_3 k_4 k_5 k_6}^{40} \Omega_{k_7 k_8 k_3 k_4}^{22} \Omega_{k_9 k_7 k_5 k_1}^{13} \Omega_{k_9 k_8 k_6 k_2}^{04} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_4 -$$

 $a_4 = \epsilon_{k_5 k_7 k_8 k_9}$

$$T6 = \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_3 + a_4)(a_3 + a_4)a_4}$$

$$a_1 = \epsilon^{k_3 k_4 k_5 k_6}$$

$$a_2 = \epsilon^{k_7 k_8}_{k_3 k_4}$$

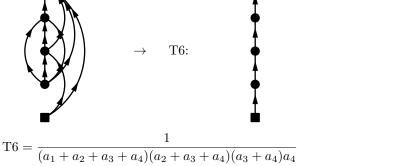
$$a_3 = \epsilon^{k_9}_{k_1 k_5 k_7}$$

$$a_4 = \epsilon_{k_1 k_5 k_7}$$

$$a_4 = \epsilon_{k_1 k_5 k_7}$$
(236)

Diagram 112:

$$PO4.112 = \lim_{\tau \to \infty} \frac{-(-1)^4}{(2!)} \sum_{k_i} O_{k_1 k_2}^{20} \Omega_{k_3 k_4 k_5 k_6}^{40} \Omega_{k_7 k_8 k_3 k_1}^{22} \Omega_{k_9 k_7 k_4 k_5}^{13} \Omega_{k_9 k_7 k_4 k_5}^{04} \Omega_{k_9 k_8 k_6 k_2}^{04} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau$$



(238)

$$a_{1} = \epsilon^{k_{3}k_{4}k_{5}k_{6}}$$

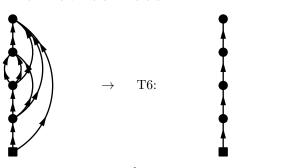
$$a_{2} = \epsilon^{k_{7}k_{8}}_{k_{1}k_{3}}$$

$$a_{3} = \epsilon^{k_{9}}_{k_{4}k_{5}k_{7}}$$

$$a_{4} = \epsilon_{k_{2}k_{6}k_{8}k_{9}}$$

Diagram 113:

$$PO4.113 = \lim_{\tau \to \infty} \frac{-(-1)^4}{(2!)} \sum_{k_i} O_{k_1 k_2}^{20} \Omega_{k_3 k_4 k_5 k_1}^{31} \Omega_{k_6 k_7 k_8 k_3}^{31} \Omega_{k_9 k_6 k_7 k_4}^{13} \Omega_{k_9 k_8 k_5 k_2}^{04} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_4 -$$



$$T6 = \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_3 + a_4)(a_3 + a_4)a_4}$$
 (240)

$$a_1 = \epsilon_{k_1}^{k_3 k_4 k_5}$$

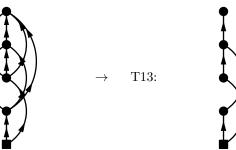
$$a_2 = \epsilon_{k_3}^{k_6 k_7 k_8}$$

$$a_3 = \epsilon_{k_4 k_6 k_7}^{k_9}$$

$$a_4 = \epsilon_{k_2 k_5 k_8 k_9}$$

Diagram 114:

$$PO4.114 = \lim_{\tau \to \infty} \frac{-(-1)^4}{(2!)^2} \sum_{k_i} O_{k_1 k_2}^{20} \Omega_{k_3 k_4 k_5 k_1}^{31} \Omega_{k_6 k_7 k_8 k_2}^{31} \Omega_{k_9 k_6 k_3 k_4}^{13} \Omega_{k_9 k_7 k_8 k_5}^{13} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_1) \theta(\tau_4$$



$$T13 = \frac{1}{(a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_4)a_4} + \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_3 + a_4)(a_3 + a_4)a_4}$$

$$a_1 = \epsilon_{k_1}^{k_3 k_4 k_5}$$

$$a_2 = \epsilon_{k_2}^{k_6 k_7 k_8}$$

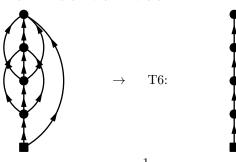
$$a_3 = \epsilon_{k_3 k_4 k_6}^{k_9}$$

$$a_4 = \epsilon_{k_5 k_7 k_8 k_9}$$

$$(242)$$

Diagram 115:

$$PO4.115 = \lim_{\tau \to \infty} \frac{(-1)^4}{(2!)^2} \sum_{k_i} O_{k_1 k_2}^{20} \Omega_{k_3 k_4 k_5 k_1}^{31} \Omega_{k_6 k_7 k_8 k_3}^{31} \Omega_{k_9 k_6 k_4 k_5}^{13} \Omega_{k_9 k_7 k_8 k_2}^{04} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 -$$



$$T6 = \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_3 + a_4)(a_3 + a_4)a_4}$$

$$a_1 = \epsilon_{k_1}^{k_3 k_4 k_5}$$

$$a_2 = \epsilon_{k_3}^{k_6 k_7 k_8}$$

$$a_3 = \epsilon_{k_4 k_5 k_6}^{k_9}$$

$$a_4 = \epsilon_{k_2 k_7 k_8 k_9}$$

$$(244)$$

Diagram 116:

 $a_4 = \epsilon_{k_2 k_7 k_8 k_6}$

Diagram 117:

$$PO4.117 = \lim_{\tau \to \infty} \frac{(-1)^4}{(3!)^2} \sum_{k_i} O_{k_1 k_2}^{20} \Omega_{k_3 k_4 k_5 k_1}^{31} \Omega_{k_6 k_3 k_4 k_5}^{13} \Omega_{k_7 k_8 k_9 k_6}^{31} \Omega_{k_7 k_8 k_9 k_2}^{40} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_{k_1}^{k_3} t}$$

$$= \frac{(-1)^4}{(3!)^2} \sum_{k_i} \frac{O_{k_1 k_2}^{20} \Omega_{k_3 k_4 k_5 k_1}^{31} \Omega_{k_6 k_3 k_4 k_5}^{13} \Omega_{k_7 k_8 k_9 k_6}^{13} \Omega_{k_7 k_8 k_9 k_2}^{40}}{\epsilon_{k_1 k_2} \epsilon_{k_3 k_4 k_5 k_2} \epsilon_{k_6 k_2} \epsilon_{k_2 k_7 k_8 k_9}}$$

$$\rightarrow T6:$$

$$T6 = \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_3 + a_4)(a_3 + a_4)a_4}$$

$$a_1 = \epsilon_{k_1}^{k_2 k_4 k_5}$$

$$a_2 = \epsilon_{k_3 k_4 k_5}^{k_3 k_4 k_5}$$

$$a_3 = \epsilon_{k_7 k_8 k_9}^{k_7 k_8 k_9}$$

$$a_3 = \epsilon_{k_7 k_8 k_9}^{k_7 k_8 k_9}$$

$$a_3 = \epsilon_{k_7 k_8 k_9}^{k_7 k_8 k_9}$$

$$a_4 = \epsilon_{k_8 k_4 k_5}^{k_5 k_6}$$

$$a_4 = \epsilon_{k_8 k_4 k_5}^{k_5 k_6}$$

$$a_5 = \epsilon_{k_7 k_8 k_9}^{k_7 k_8 k_9}$$

Diagram 118:

$$PO4.118 = \lim_{\tau \to \infty} \frac{-(-1)^4}{(2!)^2} \sum_{k_i} O_{k_1 k_2}^{20} \Omega_{k_3 k_4 k_5 k_6}^{40} \Omega_{k_7 k_8 k_3 k_1}^{22} \Omega_{k_9 k_7 k_8 k_4}^{13} \Omega_{k_9 k_7 k_8 k_4}^{04} \Omega_{k_9 k_5 k_6 k_2}^{04} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_4 -$$

$$T6 = \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_3 + a_4)(a_3 + a_4)a_4}$$

$$a_1 = \epsilon^{k_3 k_4 k_5 k_6}$$

$$a_2 = \epsilon^{k_7 k_8}_{k_1 k_3}$$

$$a_3 = \epsilon^{k_9}_{k_4 k_7 k_8}$$

$$a_4 = \epsilon_{k_2 k_5 k_6 k_9}$$

$$(250)$$

Diagram 119:

$$PO4.119 = \lim_{\tau \to \infty} \frac{(-1)^4}{(2!)^2} \sum_{k_i} O_{k_1 k_2}^{20} \Omega_{k_3 k_4 k_5 k_6}^{40} \Omega_{k_7 k_3 k_4 k_1}^{13} \Omega_{k_8 k_9 k_7 k_5}^{22} \Omega_{k_8 k_9 k_6 k_2}^{04} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_4 -$$

 $a_4 = \epsilon_{k_2 k_6 k_8 k_6}$

Diagram 120:

$$PO4.120 = \lim_{\tau \to \infty} \frac{-(-1)^4}{(2!)(3!)} \sum_{k_i} O_{k_1 k_2}^{20} \Omega_{k_3 k_4 k_5 k_1}^{31} \Omega_{k_6 k_3 k_4 k_2}^{13} \Omega_{k_7 k_8 k_9 k_6}^{31} \Omega_{k_7 k_8 k_9 k_5}^{01} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_1) \theta(\tau_$$

$$T6 = \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_3 + a_4)(a_3 + a_4)a_4}$$

$$a_1 = \epsilon_{k_1}^{k_3 k_4 k_5}$$

$$a_2 = \epsilon_{k_2 k_3 k_4}^{k_6}$$

$$a_3 = \epsilon_{k_6}^{k_7 k_8 k_9}$$

$$a_4 = \epsilon_{k_1 k_2 k_3 k_4}$$

$$a_4 = \epsilon_{k_1 k_3 k_4}$$

$$a_4 = \epsilon_{k_1 k_3 k_4}$$
(254)

Diagram 121:

$$PO4.121 = \lim_{\tau \to \infty} \frac{(-1)^4}{(2!)^3} \sum_{k_i} O_{k_1 k_2}^{20} \Omega_{k_3 k_4 k_5 k_1}^{31} \Omega_{k_6 k_7 k_3 k_2}^{22} \Omega_{k_8 k_9 k_6 k_7}^{20} \Omega_{k_8 k_9 k_4 k_5}^{04} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_1) \theta(\tau_4 -$$

$$T6 = \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_3 + a_4)(a_3 + a_4)a_4}$$

$$a_1 = \epsilon_{k_1}^{k_3 k_4 k_5}$$

$$a_2 = \epsilon_{k_2 k_3}^{k_6 k_7}$$

$$a_3 = \epsilon_{k_6 k_7}^{k_8 k_9}$$

$$a_4 = \epsilon_{h_1 h_2 h_3 h_4}$$
(256)

Diagram 122:

$$PO4.122 = \lim_{\tau \to \infty} \frac{(-1)^4}{(2!)^3} \sum_{k_i} O_{k_1 k_2}^{20} \Omega_{k_3 k_4 k_5 k_6}^{40} \Omega_{k_7 k_3 k_4 k_1}^{13} \Omega_{k_8 k_9 k_7 k_2}^{22} \Omega_{k_8 k_9 k_5 k_6}^{04} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_1) \theta(\tau_4 -$$

$$a_1 = \epsilon^{k_3 k_4 k_5 k_6}$$

$$a_2 = \epsilon^{k_7}_{k_1 k_3 k_4}$$

$$a_3 = \epsilon^{k_8 k_9}_{k_2 k_7}$$

$$a_4 = \epsilon_{k_5 k_6 k_8 k_9}$$

Diagram 123:

$$PO4.123 = \lim_{\tau \to \infty} \frac{(-1)^4}{(2!)(3!)} \sum_{k_i} O_{k_1 k_2}^{20} \Omega_{k_3 k_4 k_5 k_6}^{40} \Omega_{k_7 k_8 k_3 k_1}^{21} \Omega_{k_9 k_7 k_8 k_2}^{13} \Omega_{k_9 k_4 k_5 k_6}^{60} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_1) \theta(\tau_4$$

Diagram 124:

$$\begin{aligned} \text{PO4.124} &= \lim_{\tau \to \infty} \frac{-(-1)^4}{(2!)(3!)} \sum_{k_i} O_{k_1 k_2}^{20} \Omega_{k_3 k_4 k_5 k_6}^{40} \Omega_{k_7 k_3 k_4 k_5}^{13} \Omega_{k_8 k_9 k_7 k_1}^{22} \Omega_{k_8 k_9 k_7 k_2}^{60} \int_0^{\tau} \mathrm{d}\tau_1 \mathrm{d}\tau_2 \mathrm{d}\tau_3 \mathrm{d}\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_1)$$

 $a_4 = \epsilon_{k_2 k_6 k_8 k_9}$

Diagram 125:

$$PO4.125 = \lim_{\tau \to \infty} \frac{(-1)^4}{(2!)^3} \sum_{k_i} O_{k_1 k_2}^{20} \Omega_{k_3 k_4 k_5 k_6}^{40} \Omega_{k_2 k_8 k_3 k_4}^{22} \Omega_{k_3 k_4 k_5 k_6}^{13} \Omega_{k_3 k_5 k_6 k_2}^{13} \int_0^{04} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) \theta(\tau_4 - \tau_3) \theta(\tau_4 - \tau_4) \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) \theta(\tau_4 - \tau_3) \theta(\tau_4 - \tau_3) \theta(\tau_4 - \tau_4) \theta(\tau_4$$

 $a_4 = \epsilon_{k_2 k_5 k_6 k_6}$

Diagram 126:

$$PO4.126 = \lim_{\tau \to \infty} \frac{(-1)^4}{(2!)^3} \sum_{k_i} O_{k_1 k_2}^{20} \Omega_{k_3 k_4 k_5 k_1}^{31} \Omega_{k_6 k_7 k_3 k_4}^{22} \Omega_{k_8 k_9 k_6 k_7}^{20} \Omega_{k_8 k_9 k_5 k_2}^{40} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) \theta(\tau_4 - \tau_4) \theta(\tau_4 - \tau_4) \theta(\tau_5 -$$

Diagram 127:

$$PO4.127 = \lim_{\tau \to \infty} \frac{(-1)^4}{(2!)(3!)} \sum_{k_i} O_{k_1 k_2}^{20} \Omega_{k_3 k_4 k_5 k_1}^{31} \Omega_{k_6 k_7 k_8 k_3}^{13} \Omega_{k_9 k_6 k_7 k_8}^{13} \Omega_{k_9 k_4 k_5 k_2}^{04} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_1) \theta(\tau_4$$

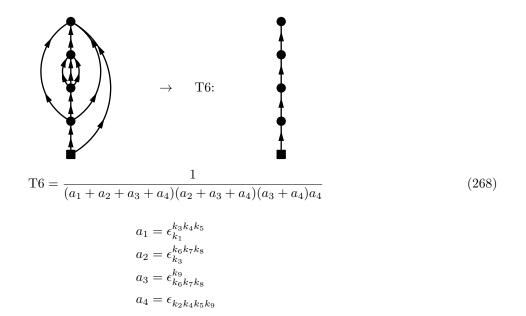
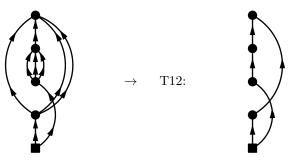


Diagram 128:

$$PO4.128 = \lim_{\tau \to \infty} \frac{-(-1)^4}{(3!)^2} \sum_{k_i} O_{k_1 k_2}^{20} \Omega_{k_3 k_4 k_5 k_1}^{31} \Omega_{k_6 k_7 k_8 k_2}^{31} \Omega_{k_9 k_6 k_7 k_8}^{13} \Omega_{k_9 k_6 k_7 k_8}^{04} \Omega_{k_9 k_3 k_4 k_5}^{04} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_k^4} d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_k^4} d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_k^4} d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_k^4} d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_k^4} d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_k^4} d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_k^4} d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_k^4} d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_k^4} d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_k^4} d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_k^4} d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_k^4} d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_k^4} d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_k^4} d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_k^4} d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_k^4} d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_k^4} d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_k^4} d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_k^4} d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_k^4} d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_k^4} d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_k^4} d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_k^4} d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_k^4} d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_k^4} d\tau_4 \theta(\tau_4 -$$



$$T12 = \frac{1}{(a_1 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_4)a_4} + \frac{1}{(a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_4)a_4} + \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_4)a_4} + \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_3 + a_4)a_4} + \frac{1}{(a_1 + a_3 + a_4)(a_3 + a_4)(a_4 + a_4)(a_4$$

$$a_{1} = \epsilon_{k_{1}}^{k_{3}k_{4}k_{5}}$$

$$a_{2} = \epsilon_{k_{2}}^{k_{6}k_{7}k_{8}}$$

$$a_{3} = \epsilon_{k_{6}k_{7}k_{8}}^{k_{9}}$$

$$a_{4} = \epsilon_{k_{3}k_{4}k_{5}k_{9}}$$

Diagram 129:

$$T9 = \frac{1}{(a_1 + a_2 + a_4)a_2(a_3 + a_1 + a_2 + a_4)a_4} + \frac{1}{(a_1 + a_2 + a_3 + a_4)a_2(a_3 + a_4)a_4}$$

$$a_1 = \epsilon^{k_3 k_4 k_5 k_6}$$

$$a_2 = \epsilon_{k_1 k_3 k_4 k_5}$$

$$a_3 = \epsilon^{k_7 k_8 k_9}_{k_2}$$

$$a_4 = \epsilon_{k_6 k_7 k_8 k_9}$$

$$a_4 = \epsilon_{k_6 k_7 k_8 k_9}$$

$$a_4 = \epsilon_{k_6 k_7 k_8 k_9}$$

$$a_5 = \epsilon^{k_7 k_8 k_9}_{k_9}$$

Diagram 130:

2.3 Two-body non-canonical diagrams

Diagram 131:

$$T10 = \frac{1}{(a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)a_3a_4} + \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_3 + a_4)a_3a_4}$$

$$a_1 = \epsilon^{k_3k_4}$$

$$a_2 = \epsilon^{k_5k_6}_{k_1k_2}$$

$$a_3 = \epsilon_{k_3k_5}$$

$$a_4 = \epsilon_{k_4k_6}$$

$$a_4 = \epsilon_{k_4k_6}$$

$$(276)$$

Diagram 132:

$$PO4.132 = \lim_{\tau \to \infty} \frac{-(-1)^4}{(2!)(3!)} \sum_{k_i} O_{k_1 k_2}^{20} \Omega_{k_3 k_4 k_5 k_6}^{40} \Omega_{k_7 k_8 k_1 k_2}^{22} \Omega_{k_7 k_3}^{02} \Omega_{k_8 k_4 k_5 k_6}^{04} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_2)$$

$$T10 = \frac{1}{(a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)a_3a_4} + \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_3 + a_4)a_3a_4}$$

$$a_1 = \epsilon^{k_3k_4k_5k_6}$$

$$a_2 = \epsilon^{k_7k_8}_{k_1k_2}$$

$$a_3 = \epsilon_{k_3k_7}$$

$$a_4 = \epsilon_{k_4k_5k_6k_8}$$

$$(278)$$

Diagram 133:

$$\begin{aligned} \text{PO4.133} &= \lim_{\tau \to \infty} \frac{-(-1)^4}{(2!)(3!)} \sum_{k_i} O_{k_1 k_2}^{20} \Omega_{k_3 k_4}^{20} \Omega_{k_5 k_6 k_7 k_8}^{40} \Omega_{k_5 k_6 k_7 k_3}^{40} \Omega_{k_8 k_4 k_1 k_2}^{64} \int_0^{\tau} \mathrm{d}\tau_1 \mathrm{d}\tau_2 \mathrm{d}\tau_3 \mathrm{d}\tau_4 \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 -$$

$$T10 = \frac{1}{(a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)a_3a_4} + \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_3 + a_4)a_3a_4}$$

$$a_1 = \epsilon^{k_3k_4}$$

$$a_2 = \epsilon^{k_5k_6k_7k_8}$$

$$a_3 = \epsilon_{k_3k_5k_6k_7}$$

$$a_4 = \epsilon_{k_1k_2k_4k_8}$$

$$(280)$$

Diagram 134:

$$T10 = \frac{1}{(a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)a_3a_4} + \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_3 + a_4)a_3a_4}$$

$$a_1 = \epsilon^{k_3k_4}$$

$$a_2 = \epsilon^{k_5k_6}$$

$$a_3 = \epsilon_{k_3k_5}$$

$$a_4 = \epsilon_{k_1k_2k_4k_6}$$

$$(282)$$

Diagram 135:

$$T7 = \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_3 + a_4)a_3a_4}$$

$$a_1 = \epsilon^{k_3k_4k_5k_6}$$

$$a_2 = \epsilon^{k_7k_8}_{k_3k_4}$$

$$a_3 = \epsilon_{k_1k_2k_5k_7}$$

$$a_4 = \epsilon_{k_6k_8}$$
(284)

Diagram 136:

Diagram 137:

$$T7 = \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_3 + a_4)a_3a_4}$$

$$a_1 = \epsilon^{k_3k_4}$$

$$a_2 = \epsilon^{k_5k_6k_7}_{k_3}$$

$$a_3 = \epsilon_{k_1k_2k_5k_6}$$

$$a_4 = \epsilon_{k_4k_7}$$

$$(288)$$

Diagram 138:

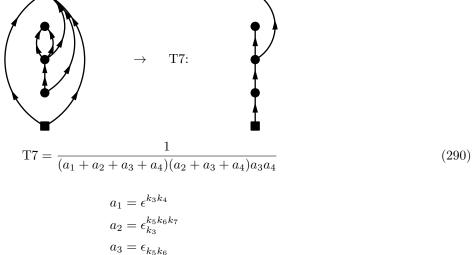
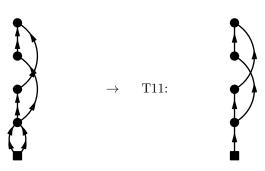


Diagram 139:

$$PO4.139 = \lim_{\tau \to \infty} \frac{-(-1)^4}{2(2!)} \sum_{k_i} O_{k_1 k_2}^{20} \Omega_{k_3 k_4 k_1 k_2}^{22} \Omega_{k_5 k_3}^{11} \Omega_{k_6 k_4}^{11} \Omega_{k_6 k_5}^{0} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_{k_1 k_2}^{k_3 k_4 k_4 k_5}}$$

$$= \frac{-(-1)^4}{2(2!)} \sum_{k_i} O_{k_1 k_2}^{20} \Omega_{k_3 k_4 k_1 k_2}^{22} \Omega_{k_5 k_3}^{11} \Omega_{k_6 k_4}^{11} \Omega_{k_6 k_5}^{02} \left[\frac{1}{\epsilon_{k_1 k_2} \epsilon_{k_3 k_4} \epsilon_{k_5 k_6}} + \frac{1}{\epsilon_{k_1 k_2} \epsilon_{k_3 k_4} \epsilon_{k_4 k_5} \epsilon_{k_5 k_6}} \right]$$

$$(201)$$



 $a_4 = \epsilon_{k_1 k_2 k_4 k_7}$

$$T11 = \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_4)(a_3 + a_2 + a_4)a_4} + \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_3 + a_4)(a_3 + a_4)a_4}$$

$$a_1 = \epsilon_{k_1 k_2}^{k_3 k_4}$$

$$a_2 = \epsilon_{k_3}^{k_5}$$

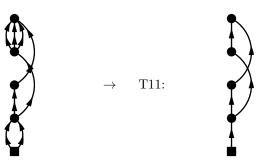
$$a_3 = \epsilon_{k_4}^{k_6}$$

$$a_4 = \epsilon_{k_5 k_6}$$

$$a_4 = \epsilon_{k_5 k_6}$$
(292)

Diagram 140:

$$PO4.140 = \lim_{\tau \to \infty} \frac{-(-1)^4}{(2!)(3!)} \sum_{k_i} O_{k_1 k_2}^{20} \Omega_{k_3 k_4 k_1 k_2}^{22} \Omega_{k_5 k_3}^{11} \Omega_{k_6 k_7 k_8 k_4}^{31} \Omega_{k_6 k_7 k_8 k_5}^{40} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) d\tau_4 \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) d\tau_4 \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) d\tau_4 \theta(\tau_4 - \tau_4) \theta(\tau_4 - \tau_4) d\tau_4 \theta(\tau_4 - \tau_4) \theta(\tau_4 - \tau_4) d\tau_4 \theta(\tau_4 - \tau_4) \theta(\tau_4 - \tau_4) d\tau_4 \theta(\tau_4$$



$$T11 = \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_4)(a_3 + a_2 + a_4)a_4} + \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_3 + a_4)(a_3 + a_4)a_4}$$
(294)

$$a_{1} = \epsilon_{k_{1}k_{2}}^{k_{3}k_{4}}$$

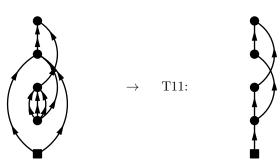
$$a_{2} = \epsilon_{k_{3}}^{k_{5}}$$

$$a_{3} = \epsilon_{k_{4}}^{k_{6}k_{7}k_{8}}$$

$$a_{4} = \epsilon_{k_{7}k_{6}k_{7}k_{8}}$$

Diagram 141:

$$PO4.141 = \lim_{\tau \to \infty} \frac{-(-1)^4}{(2!)(3!)} \sum_{k_i} O_{k_1 k_2}^{20} \Omega_{k_3 k_4 k_5 k_6}^{40} \Omega_{k_7 k_3 k_4 k_5}^{13} \Omega_{k_8 k_6 k_1 k_2}^{13} \Omega_{k_8 k_7}^{02} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) \theta(\tau_4 - \tau_3) \theta(\tau_4 - \tau_3) \theta(\tau_4 - \tau_4) \theta(\tau_4 - \tau_4)$$



$$T11 = \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_4)(a_3 + a_2 + a_4)a_4} + \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_3 + a_4)(a_3 + a_4)a_4}$$
(296)

$$a_1 = \epsilon^{k_3 k_4 k_5 k_6}$$

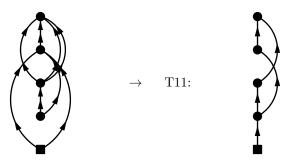
$$a_2 = \epsilon^{k_7}_{k_3 k_4 k_5}$$

$$a_3 = \epsilon^{k_8}_{k_1 k_2 k_6}$$

$$a_4 = \epsilon_{k_7 k_8}$$

Diagram 142:

$$PO4.142 = \lim_{\tau \to \infty} \frac{-(-1)^4}{(2!)(3!)} \sum_{k_i} O_{k_1 k_2}^{20} \Omega_{k_3 k_4}^{20} \Omega_{k_5 k_6 k_7 k_3}^{31} \Omega_{k_8 k_4 k_1 k_2}^{13} \Omega_{k_8 k_5 k_6 k_7}^{60} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) d\tau_4 \theta(\tau_4 - \tau_4) d\tau_4 \theta(\tau_4 -$$



$$T11 = \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_4)(a_3 + a_2 + a_4)a_4} + \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_3 + a_4)(a_3 + a_4)a_4}$$
(298)

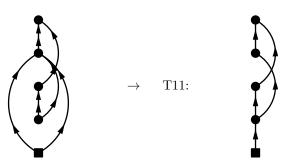
$$a_{1} = \epsilon^{k_{3}k_{4}}$$

$$a_{2} = \epsilon^{k_{5}k_{6}k_{7}}_{k_{3}}$$

$$a_{3} = \epsilon^{k_{8}}_{k_{1}k_{2}k_{4}}$$

$$a_{4} = \epsilon_{k_{5}k_{6}k_{7}k_{8}}$$

Diagram 143:



$$T11 = \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_4)(a_3 + a_2 + a_4)a_4} + \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_3 + a_4)(a_3 + a_4)a_4}$$
(300)

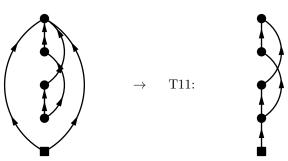
$$a_{1} = \epsilon^{k_{3}k_{4}}$$

$$a_{2} = \epsilon^{k_{5}}_{k_{3}}$$

$$a_{3} = \epsilon^{k_{6}}_{k_{1}k_{2}k_{4}}$$

$$a_{4} = \epsilon_{k_{5}k_{6}}$$

Diagram 144:



$$T11 = \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_4)(a_3 + a_2 + a_4)a_4} + \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_3 + a_4)(a_3 + a_4)a_4}$$
(302)

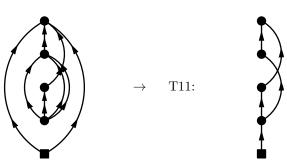
$$a_1 = \epsilon^{k_3 k_4}$$

$$a_2 = \epsilon^{k_5}_{k_3}$$

$$a_3 = \epsilon^{k_6}_{k_4}$$

Diagram 145:

$$PO4.145 = \lim_{\tau \to \infty} \frac{-(-1)^4}{(2!)(3!)} \sum_{k_i} O_{k_1 k_2}^{20} \Omega_{k_3 k_4 k_5 k_6}^{40} \Omega_{k_7 k_3}^{11} \Omega_{k_8 k_4 k_5 k_6}^{13} \Omega_{k_8 k_7 k_1 k_2}^{40} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) d\tau_4 \theta(\tau_4 - \tau_4) \theta($$



$$T11 = \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_4)(a_3 + a_2 + a_4)a_4} + \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_3 + a_4)(a_3 + a_4)a_4}$$
(304)

$$a_{1} = \epsilon^{k_{3}k_{4}k_{5}k_{6}}$$

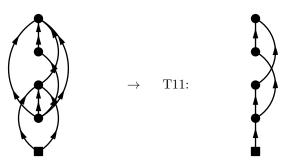
$$a_{2} = \epsilon^{k_{7}}_{k_{3}}$$

$$a_{3} = \epsilon^{k_{8}}_{k_{4}k_{5}k_{6}}$$

$$a_{4} = \epsilon_{k_{1}k_{2}k_{7}k_{8}}$$

Diagram 146:

$$PO4.146 = \lim_{\tau \to \infty} \frac{-(-1)^4}{(2!)^2} \sum_{k_i} O_{k_1 k_2}^{20} \Omega_{k_3 k_4 k_5 k_6}^{40} \Omega_{k_7 k_3 k_1 k_2}^{13} \Omega_{k_8 k_4}^{11} \Omega_{k_8 k_7 k_5 k_6}^{04} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_2) d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_2) d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_2) d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_2) d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_2) d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_2) d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_2) d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_2) d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_2) d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_2) d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_2) d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_2) d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_2) d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_2) d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_2) d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_2) d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_2) d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_2) d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_2) d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_2) d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_2) d\tau_4 \theta(\tau_4 \theta(\tau_4 -$$



$$T11 = \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_4)(a_3 + a_2 + a_4)a_4} + \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_3 + a_4)(a_3 + a_4)a_4}$$
(306)

$$a_1 = \epsilon^{k_3 k_4 k_5 k_6}$$

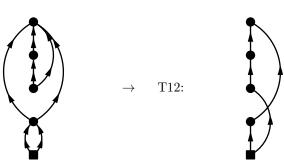
$$a_2 = \epsilon_{k_1 k_2 k_3}^{k_7}$$
$$a_3 = \epsilon_{k_4}^{k_8}$$

$$a_3 = \epsilon_{k_4}^{k_8}$$

$$a_4 = \epsilon_{k_5 k_6 k_7 k_8}$$

Diagram 147:

$$PO4.147 = \lim_{\tau \to \infty} \frac{(-1)^4}{(2!)^2} \sum_{k_i} O_{k_1 k_2}^{20} \Omega_{k_3 k_4 k_1 k_2}^{22} \Omega_{k_5 k_6}^{20} \Omega_{k_7 k_5}^{11} \Omega_{k_7 k_6 k_3 k_4}^{04} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_4} d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_4} d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_4} d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_4} d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_4} d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_4} d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_4} d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_4} d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_4} d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_4} d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_4} d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_4} d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_4} d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_4} d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_4} d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_4} d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_4} d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_4} d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_4} d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_4} d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_4} d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_4} d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_4} d\tau_4 \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_4} d\tau_4 \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_4} d\tau_4 \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_4} d\tau_4 \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_4} d\tau_4 \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_4} d\tau_4 \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_4} d\tau_4 \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_4} d\tau_4 \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_4} d\tau_4 \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_4} d\tau_4 \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_4} d\tau_4 \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) e$$



$$T12 = \frac{1}{(a_1 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_4)a_4} + \frac{1}{(a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_4)a_4} + \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_4)a_4} + \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_3 + a_4)a_4} + \frac{1}{(a_1 + a_3 + a_4)(a_3 + a_4)(a_3 + a_4)(a_3 + a_4)(a_3 + a_4)(a_3 + a_4)(a_3 + a_4)(a_4 + a_4)(a_4$$

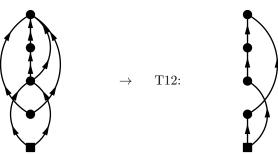
$$a_1 = \epsilon_{k_1 k_2}^{k_3 k_4}$$

$$a_2 = \epsilon^{k_5 k_6}$$

$$a_3 = \epsilon_{k_r}^{k_7}$$

$$a_4 = \epsilon_{k_3 k_4 k_6 k_7}$$

Diagram 148:



$$T12 = \frac{1}{(a_1 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_4)a_4} + \frac{1}{(a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_4)a_4} + \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_4)a_4} + \frac{1}{(a_1 + a_3 + a_4)(a_3 + a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_3 + a_4)(a_3 + a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_4)(a_3 + a_4)(a_3 + a_4)(a_3 + a_4)(a_3 + a_4)(a_3 + a_4)(a_4 + a_$$

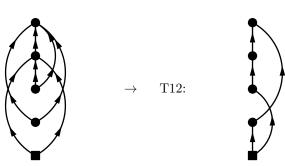
$$a_1 = \epsilon^{k_3 k_4}$$

$$a_2 = \epsilon_{k_1 k_2}^{k_5 k_6}$$

$$a_3 = \epsilon_{k_z}^{k_7}$$

$$a_4 = \epsilon_{k_2 k_4 k_6 k_5}$$

Diagram 149:



$$T12 = \frac{1}{(a_1 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_4)a_4} + \frac{1}{(a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_4)a_4} + \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_2)(a_3 + a_1$$

$$a_1 = \epsilon^{k_3 k_4}$$

$$a_2 = \epsilon^{k_5 k_6}$$

$$a_3 = \epsilon_{k_1 k_2 k_5}^{k_7}$$

$$a_4 = \epsilon_{k_3 k_4 k_6 k_7}$$

Diagram 150:

$$PO4.150 = \lim_{\tau \to \infty} \frac{(-1)^4}{(2!)^2} \sum_{k_i} O_{k_1 k_2}^{20} \Omega_{k_3 k_4}^{20} \Omega_{k_3 k_4}^{31} \Omega_{k_5 k_6 k_7 k_3}^{13} \Omega_{k_8 k_5 k_1 k_2}^{13} \Omega_{k_8 k_6 k_7 k_4}^{04} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_2) \theta$$

$$= \frac{(-1)^4}{(2!)^2} \sum_{k_i} \frac{O_{k_1 k_2}^{20} \Omega_{k_3 k_4}^{20} \Omega_{k_3 k_4}^{31} \Omega_{k_5 k_6 k_7 k_3}^{13} \Omega_{k_8 k_5 k_1 k_2}^{13} \Omega_{k_8 k_6 k_7 k_4}^{04}}{\epsilon_{k_1 k_2} \epsilon_{k_3 k_1 k_2 k_4} \epsilon_{k_1 k_2 k_5 k_4 k_6 k_7} \epsilon_{k_4 k_6 k_7 k_8}}$$

$$\rightarrow T6:$$

$$T6 = \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_3 + a_4)(a_3 + a_4)a_4}$$

$$a_1 = \epsilon^{k_3 k_4}$$

$$a_2 = \epsilon^{k_5 k_6 k_7}_{k_3}$$

$$a_3 = \epsilon^{k_8}_{k_1 k_2 k_5}$$

$$a_4 = \epsilon_{k_4 k_6 k_7 k_8}$$
(314)

Diagram 151:

$$PO4.151 = \lim_{\tau \to \infty} \frac{(-1)^4}{(2!)^2} \sum_{k_i} O_{k_1 k_2}^{20} \Omega_{k_3 k_4 k_1 k_2}^{22} \Omega_{k_5 k_6 k_7 k_3}^{31} \Omega_{k_8 k_5}^{11} \Omega_{k_8 k_6 k_7 k_4}^{04} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_2) \theta($$

$$T6 = \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_3 + a_4)(a_3 + a_4)a_4}$$

$$a_1 = \epsilon_{k_1 k_2}^{k_3 k_4}$$

$$a_2 = \epsilon_{k_3}^{k_5 k_6 k_7}$$

$$a_3 = \epsilon_{k_5}^{k_8}$$
(316)

Diagram 152:

$$PO4.152 = \lim_{\tau \to \infty} \frac{-(-1)^4}{(2!)^2} \sum_{k_i} O_{k_1 k_2}^{20} \Omega_{k_3 k_4 k_1 k_2}^{22} \Omega_{k_5 k_6}^{20} \Omega_{k_7 k_8 k_5 k_3}^{22} \Omega_{k_7 k_8 k_5 k_4}^{04} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_2) \theta$$

$$T13 = \frac{1}{(a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_4)a_4} + \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_3 + a_4)(a_3 + a_4)a_4}$$

$$a_1 = \epsilon_{k_1 k_2}^{k_3 k_4}$$

$$a_2 = \epsilon_{k_5 k_6}^{k_5 k_6}$$

$$a_3 = \epsilon_{k_3 k_5}^{k_7 k_8}$$

$$a_4 = \epsilon_{k_4 k_6 k_7 k_8}$$

$$a_4 = \epsilon_{k_4 k_6 k_7 k_8}$$

$$(318)$$

Diagram 153:

$$PO4.153 = \lim_{\tau \to \infty} \frac{-(-1)^4}{(2!)^2} \sum_{k_i} O_{k_3 k_2}^{20} \Omega_{k_3 k_4}^{20} \Omega_{k_3 k_4}^{31} \Omega_{k_8 k_5 k_6 k_4}^{13} \Omega_{k_8 k_5 k_6 k_4}^{13} \Omega_{k_8 k_5 k_1 k_2}^{13} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_$$

Diagram 154:

$$PO4.154 = \lim_{\tau \to \infty} \frac{-(-1)^4}{(2!)^2} \sum_{k_i} O_{k_1 k_2}^{20} \Omega_{k_3 k_4 k_1 k_2}^{22} \Omega_{k_5 k_6 k_7 k_3}^{31} \Omega_{k_8 k_5 k_6 k_4}^{13} \Omega_{k_8 k_7}^{02} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_2) \theta$$

$$T6 = \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_3 + a_4)(a_3 + a_4)a_4}$$

$$a_1 = \epsilon_{k_1 k_2}^{k_3 k_4}$$

$$a_2 = \epsilon_{k_3}^{k_5 k_6 k_7}$$

$$a_3 = \epsilon_{k_4 k_5 k_6}^{k_8}$$

$$a_4 = \epsilon_{k_7 k_8}$$
(322)

Diagram 155:

Diagram 156:

$$T6 = \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_3 + a_4)(a_3 + a_4)a_4}$$
(326)

$$a_1 = \epsilon^{k_3 k_4}$$

$$a_2 = \epsilon^{k_5 k_6}_{k_3 k_4}$$

$$a_3 = \epsilon^{k_7}_{k_1 k_2 k_5}$$

$$a_4 = \epsilon_{k_6 k_7}$$

Diagram 157:

Diagram 158:

$$PO4.158 = \lim_{\tau \to \infty} \frac{(-1)^4}{(2!)^4} \sum_{k_i} O_{k_1 k_2}^{20} \Omega_{k_3 k_4}^{20} \Omega_{k_2 k_6 k_3 k_4}^{22} \Omega_{k_7 k_8 k_5 k_6}^{20} \Omega_{k_7 k_8 k_5 k_6}^{40} \Omega_{k_7 k_8 k_5$$

 $a_4 = \epsilon_{k_1 k_2 k_7 k_8}$

Diagram 159:

$$\begin{aligned} \text{PO4.159} &= \lim_{\tau \to \infty} \frac{(-1)^4}{(2!)^4} \sum_{k_i} O_{k_1 k_2}^{20} \Omega_{k_3 k_4 k_1 k_2}^{22} \Omega_{k_5 k_6 k_3 k_4}^{22} \Omega_{k_7 k_8 k_5 k_6}^{20} \Omega_{k_7 k_8}^{02} \int_0^{\tau} \mathrm{d}\tau_1 \mathrm{d}\tau_2 \mathrm{d}\tau_3 \mathrm{d}\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_{k_1 k_2}^{k_3 k_4}} e^{-\tau_1 \epsilon_{k_1 k_2}^{20}} e^{-\tau$$

Diagram 160:

Diagram 161:

$$T6 = \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_3 + a_4)(a_3 + a_4)a_4}$$

$$a_1 = \epsilon^{k_3 k_4}$$

$$a_2 = \epsilon^{k_5}_{k_1 k_2 k_3}$$

$$a_3 = \epsilon^{k_6 k_7}_{k_4 k_5}$$

$$a_4 = \epsilon_{k_5 k_5}$$

Diagram 162:

$$T6 = \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_3 + a_4)(a_3 + a_4)a_4}$$

$$a_1 = \epsilon^{k_3 k_4}$$

$$a_2 = \epsilon^{k_5}_{k_3}$$

$$a_3 = \epsilon^{k_6 k_7}_{k_4 k_5}$$

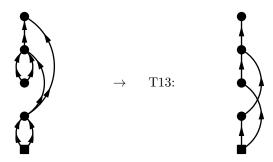
$$a_4 = \epsilon_{k_1 k_2 k_6 k_7}$$

$$a_4 = \epsilon_{k_1 k_2 k_6 k_7}$$

$$(338)$$

Diagram 163:

$$PO4.163 = \lim_{\tau \to \infty} \frac{(-1)^4}{(2!)^2} \sum_{k_i} O_{k_1 k_2}^{20} \Omega_{k_3 k_4 k_1 k_2}^{22} \Omega_{k_5 k_6}^{20} \Omega_{k_7 k_5 k_6 k_3}^{13} \Omega_{k_7 k_4}^{02} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_4} d\tau_4 \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_4} d\tau_4 \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_4} d\tau_4 \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_4} d\tau_4 \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_4} d\tau_4 \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_1$$



$$T13 = \frac{1}{(a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_4)a_4} + \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_3 + a_4)(a_3 + a_4)a_4}$$
(340)

$$a_1 = \epsilon_{k_1 k_2}^{k_3 k_4}$$

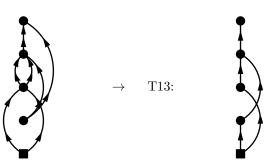
$$a_2 = \epsilon^{k_5 k_6}$$

$$a_3 = \epsilon_{k_3 k_5 k_6}^{k_7}$$

$$a_4 = \epsilon_{k_4 k_7}$$

Diagram 164:

$$PO4.164 = \lim_{\tau \to \infty} \frac{(-1)^4}{(2!)^2} \sum_{k_i} O_{k_1 k_2}^{20} \Omega_{k_3 k_4}^{20} \Omega_{k_5 k_6 k_1 k_2}^{22} \Omega_{k_7 k_5 k_6 k_3}^{13} \Omega_{k_7 k_4}^{02} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_4} d\tau_4 \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_4} d\tau_4 \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_4} d\tau_4 \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_4} d\tau_4 \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_4} d\tau_4 \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_4} d\tau_4 \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_4} d\tau_4 \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_4} d\tau_4 \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_4} d\tau_4 \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_4} d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_4} d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_4} d\tau_4 \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_4} d\tau_4 \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_4} d\tau_4 \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_4} d\tau_4 \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_4} d\tau_4 \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_4} d\tau_4 \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_4} d\tau_4 \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_4} d\tau_4 \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_4} d\tau_4 \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_4} d\tau_4 \theta(\tau_4 - \tau_4) \theta(\tau_4 - \tau$$



$$T13 = \frac{1}{(a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_4)a_4} + \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_3 + a_4)(a_3 + a_4)a_4}$$
(342)

$$a_1 = \epsilon^{k_3 k_4}$$

$$a_2 = \epsilon_k^{k_5 k_6}$$

$$a_2 = \epsilon_{k_1 k_2}^{k_5 k_6}$$
$$a_3 = \epsilon_{k_3 k_5 k_6}^{k_7}$$

$$a_4 = \epsilon_{k_4 k_7}$$

Diagram 165:

$$PO4.165 = \lim_{\tau \to \infty} \frac{(-1)^4}{(2!)^2} \sum_{k_i} O_{k_1 k_2}^{20} \Omega_{k_3 k_4}^{20} \Omega_{k_5 k_6}^{20} \Omega_{k_7 k_5 k_6 k_3}^{13} \Omega_{k_7 k_4 k_1 k_2}^{04} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_4} d\tau_4 \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_4} d\tau_4 \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_4} d\tau_4 \theta(\tau_3 - \tau_1) \theta(\tau_4 -$$

$$T13 = \frac{1}{(a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_4)a_4} + \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_3 + a_4)(a_3 + a_4)a_4}$$

$$a_1 = \epsilon^{k_3 k_4}$$

$$a_2 = \epsilon^{k_5 k_6}$$

$$a_3 = \epsilon^{k_7}_{k_3 k_5 k_6}$$

$$a_4 = \epsilon_{k_1 k_2 k_4 k_7}$$

$$(344)$$

Diagram 166:

$$PO4.166 = \lim_{\tau \to \infty} \frac{(-1)^4}{(2!)^2} \sum_{k_i} O_{k_1 k_2}^{20} \Omega_{k_3 k_4 k_5 k_6}^{40} \Omega_{k_7 k_3}^{13} \Omega_{k_8 k_7 k_4 k_5}^{13} \Omega_{k_8 k_6 k_1 k_2}^{40} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_3 - \tau_2) \theta$$

$$= \frac{(-1)^4}{(2!)^2} \sum_{k_i} \frac{O_{k_1 k_2}^{20} \Omega_{k_3 k_4 k_5 k_6}^{40} \Omega_{k_7 k_3}^{13} \Omega_{k_8 k_7 k_4 k_5}^{13} \Omega_{k_8 k_6 k_1 k_2}^{64}}{\epsilon_{k_1 k_2} \epsilon_{k_3 k_4 k_5 k_1 k_2 k_6} \epsilon_{k_4 k_5 k_7 k_1 k_2 k_6} \epsilon_{k_1 k_2 k_6 k_8}}$$

$$\rightarrow T6:$$

$$T6 = \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_3 + a_4)(a_3 + a_4)a_4}$$

$$a_1 = \epsilon^{k_3 k_4 k_5 k_6}$$

$$a_2 = \epsilon^{k_7}_{k_3}$$

$$a_3 = \epsilon^{k_8}_{k_4 k_5 k_7}$$

$$a_3 = \epsilon^{k_8}_{k_4 k_5 k_7}$$

Diagram 167:

$$PO4.167 = \lim_{\tau \to \infty} \frac{(-1)^4}{(2!)^2} \sum_{k_i} O_{k_1 k_2}^{20} \Omega_{k_3 k_4 k_5 k_6}^{40} \Omega_{k_7 k_3 k_1 k_2}^{13} \Omega_{k_8 k_7 k_4 k_5}^{13} \Omega_{k_8 k_7}^{02} \int_{k_8 k_6}^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta$$

$$= \frac{(-1)^4}{(2!)^2} \sum_{k_i} \frac{O_{k_1 k_2}^{20} \Omega_{k_3 k_4 k_5 k_6}^{40} \Omega_{k_7 k_3 k_1 k_2}^{13} \Omega_{k_8 k_7 k_4 k_5}^{13} \Omega_{k_8 k_6}^{02}}{\epsilon_{k_1 k_2} \epsilon_{k_1 k_2 k_3 k_4 k_5 k_6}} \frac{O_{k_1 k_2}^{13} \Omega_{k_8 k_7 k_4 k_5}^{13} \Omega_{k_8 k_6}^{02}}{\epsilon_{k_4 k_5 k_7 k_6}} \frac{O_{k_5 k_6}^{13} \Omega_{k_5 k_6}^{02}}{\epsilon_{k_5 k_5 k_6}}$$

$$\rightarrow T6:$$

$$T6 = \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_3 + a_4)(a_3 + a_4)a_4}$$

$$a_1 = \epsilon^{k_3 k_4 k_5 k_6}$$

$$a_2 = \epsilon^{k_7}_{k_1 k_2 k_3}$$

$$a_3 = \epsilon^{k_8}_{k_4 k_5 k_7}$$

$$a_4 = \epsilon_{k_8 k_8}$$
(348)

Diagram 168:

$$PO4.168 = \lim_{\tau \to \infty} \frac{(-1)^4}{(2!)(3!)} \sum_{k_i} O_{k_1 k_2}^{20} \Omega_{k_2 k_4 k_1 k_2}^{22} \Omega_{k_3 k_4 k_4 k_3}^{31} \Omega_{k_3 k_5 k_6 k_7}^{13} \Omega_{k_8 k_5}^{02} \Omega_{k_8 k_4}^{02} \int_{0}^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau$$

Diagram 169:

$$PO4.169 = \lim_{\tau \to \infty} \frac{(-1)^4}{(2!)} \sum_{k_i} O_{k_1 k_2}^{20} \Omega_{k_3 k_4 k_1 k_2}^{22} \Omega_{k_5 k_3}^{11} \Omega_{k_6 k_5}^{11} \Omega_{k_6 k_4}^{02} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_{k_1 k_2}^{k_3 k_4}}$$

$$= \frac{(-1)^4}{(2!)} \sum_{k_i} \frac{O_{k_1 k_2}^{20} \Omega_{k_3 k_4 k_1 k_2}^{22} \Omega_{k_5 k_3}^{11} \Omega_{k_6 k_5}^{11} \Omega_{k_6 k_4}^{02}}{\epsilon_{k_1 k_2} \epsilon_{k_3 k_4} \epsilon_{k_5 k_4}}$$

$$\rightarrow T6:$$

$$T6 = \frac{1}{(-1)^4} \sum_{k_4 k_5} \frac{(352)}{(-1)^4} \frac{1}{(-1)^4} \frac{1$$

$$a_{1} = \epsilon_{k_{1}k_{2}}^{k_{3}k_{4}}$$

$$a_{2} = \epsilon_{k_{3}}^{k_{5}}$$

$$a_{3} = \epsilon_{k_{5}}^{k_{6}}$$

$$a_{4} = \epsilon_{k_{4}k_{6}}$$

Diagram 170:

$$PO4.170 = \lim_{\tau \to \infty} \frac{(-1)^4}{(2!)(3!)} \sum_{k_i} O_{k_1 k_2}^{20} \Omega_{k_2 k_4 k_1 k_2}^{22} \Omega_{k_5 k_4 k_1 k_2}^{11} \Omega_{k_5 k_7 k_8 k_5}^{31} \Omega_{k_6 k_7 k_8 k_4}^{44} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3)$$

$$= \frac{(-1)^4}{(2!)(3!)} \sum_{k_i} \frac{O_{k_1 k_2}^{20} \Omega_{k_2 k_4 k_1 k_2}^{22} \Omega_{k_5 k_4}^{11} \Omega_{k_5 k_5}^{31} \Omega_{k_6 k_7 k_8 k_5}^{31} \Omega_{k_6 k_7 k_8 k_4}^{04}}{\epsilon_{k_1 k_2} \epsilon_{k_3 k_4} \epsilon_{k_5 k_4} \epsilon_{k_4 k_6 k_7 k_8}}$$

$$\rightarrow T6:$$

$$\frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_3 + a_4)(a_3 + a_4)a_4}$$

$$a_1 = \epsilon_{k_1 k_2}^{k_3 k_4}$$

$$a_2 = \epsilon_{k_3}^{k_3}$$

$$a_3 = \epsilon_{k_6}^{k_6 k_7 k_8}$$

$$a_3 = \epsilon_{k_6}^{k_6 k_7 k_8}$$

$$a_3 = \epsilon_{k_6}^{k_6 k_7 k_8}$$

Diagram 171:

$$PO4.171 = \lim_{\tau \to \infty} \frac{(-1)^4}{(2!)} \sum_{k_i} O_{k_1 k_2}^{20} \Omega_{k_3 k_4}^{20} \Omega_{k_3 k_4}^{13} \Omega_{k_6 k_5}^{11} \Omega_{k_6 k_5}^{02} \Omega_{k_6 k_5}^{02} \int_{0}^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon^{k_3 k_4}}$$

$$= \frac{(-1)^4}{(2!)} \sum_{k_i} \frac{O_{k_1 k_2}^{20} \Omega_{k_3 k_4}^{20} \Omega_{k_5 k_5}^{10} \Omega_{k_6 k_5}^{12} \Omega_{k_6 k_5}^{1$$

 $a_4 = \epsilon_{k_4 k_6}$

Diagram 172:

$$PO4.172 = \lim_{\tau \to \infty} \frac{(-1)^4}{(2!)(3!)} \sum_{k_i} O_{k_1 k_2}^{20} \Omega_{k_3 k_4}^{20} \Omega_{k_5 k_3 k_1 k_2}^{13} \Omega_{k_6 k_7 k_8 k_5}^{31} \Omega_{k_6 k_7 k_8 k_4}^{00} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3)$$

$$= \frac{(-1)^4}{(2!)(3!)} \sum_{k_i} \frac{O_{k_1 k_2}^{20} \Omega_{k_3 k_4}^{20} \Omega_{k_5 k_3 k_1 k_2}^{13} \Omega_{k_6 k_7 k_8 k_5}^{31} \Omega_{k_6 k_7 k_8 k_4}^{04}}{\epsilon_{k_1 k_2} \epsilon_{k_1 k_2 k_3 k_4}} \epsilon_{k_5 k_4} \epsilon_{k_4 k_6 k_7 k_8}$$

$$\rightarrow T6:$$

$$T6 = \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_3 + a_4)(a_3 + a_4)a_4}$$

$$a_1 = \epsilon^{k_3 k_4}$$

$$a_2 = \epsilon^{k_5}_{k_1 k_2 k_3}$$

$$a_3 = \epsilon^{k_5 k_7 k_8}_{k_5 k_7 k_8}$$

$$(358)$$

 $a_4 = \epsilon_{k_4 k_6 k_7 k_7}$

Diagram 173:

$$PO4.173 = \lim_{\tau \to \infty} \frac{(-1)^4}{(2!)(3!)} \sum_{k_i} O_{k_1 k_2}^{20} \Omega_{k_1 k_2}^{40} \Omega_{k_2 k_4 k_5 k_6}^{13} \Omega_{k_2 k_4 k_5 k_6}^{11} \Omega_{k_8 k_7}^{04} \Omega_{k_8 k_4 k_5 k_6}^{04} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3)$$

$$= \frac{(-1)^4}{(2!)(3!)} \sum_{k_i} \frac{O_{k_1 k_2}^{20} \Omega_{k_3 k_4 k_5 k_6}^{40} \Omega_{k_2 k_3 k_4 k_5 k_6}^{13} \Omega_{k_8 k_7}^{14} \Omega_{k_8 k_4 k_5 k_6}^{04}}{\epsilon_{k_1 k_2} \epsilon_{k_1 k_2 k_3 k_4 k_5 k_6} \epsilon_{k_7 k_4 k_5 k_6} \epsilon_{k_4 k_3 k_6 k_8}}$$

$$T6 = \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_3 + a_4)(a_3 + a_4)a_4}$$

$$a_1 = \epsilon^{k_3 k_4 k_5 k_6}$$

$$a_2 = \epsilon^{k_7}_{k_1 k_2 k_3}$$

$$a_3 = \epsilon^{k_8}_{k_7}$$

$$a_3 = \epsilon^{k_8}_{k_7}$$

Diagram 174:

$$T6 = \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_3 + a_4)(a_3 + a_4)a_4}$$

$$a_1 = \epsilon^{k_3 k_4 k_5 k_6}$$

$$a_2 = \epsilon^{k_7}_{k_3 k_4 k_5}$$

$$a_3 = \epsilon^{k_8}_{k_1 k_2 k_7}$$

$$a_4 = \epsilon_{k_6 k_8}$$

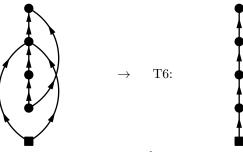
$$(362)$$

Diagram 175:

$$PO4.175 = \lim_{\tau \to \infty} \frac{(-1)^4}{(2!)} \sum_{k_i} O_{k_1 k_2}^{20} \Omega_{k_3 k_4}^{20} \Omega_{k_5 k_3}^{11} \Omega_{k_6 k_5 k_1 k_2}^{13} \Omega_{k_6 k_4}^{02} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon^{k_3 k_4}}$$

$$= \frac{(-1)^4}{(2!)} \sum_{k_i} \frac{O_{k_1 k_2}^{20} \Omega_{k_3 k_4}^{20} \Omega_{k_5 k_3}^{11} \Omega_{k_6 k_5 k_1 k_2}^{13} \Omega_{k_6 k_5}^{02}}{\epsilon_{k_1 k_2} \epsilon_{k_3 k_1 k_2 k_4}} \epsilon_{k_1 k_2 k_5 k_4} \epsilon_{k_4 k_6}}$$

$$(363)$$



$$T6 = \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_3 + a_4)(a_3 + a_4)a_4}$$

$$a_1 = \epsilon^{k_3 k_4}$$

$$a_2 = \epsilon^{k_5}_{k_3}$$

$$a_3 = \epsilon^{k_6}_{k_1 k_2 k_5}$$

$$a_4 = \epsilon_{k_1 k_2}$$
(364)

Diagram 176:

PO4.176 =
$$\lim_{\tau \to \infty} \frac{(-1)^4}{(2!)(3!)} \sum_{k_i} O_{k_1 k_2}^{20} \Omega_{k_3 k_4 k_5 k_6}^{40} \Omega_{k_7 k_3}^{11} \Omega_{k_8 k_7 k_1 k_2}^{13} \Omega_{k_8 k_4 k_5 k_6}^{64} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3)$$

$$= \frac{(-1)^4}{(2!)(3!)} \sum_{k_i} \frac{O_{k_1 k_2}^{20} \Omega_{k_3 k_4 k_5 k_6}^{40} \Omega_{k_7 k_3}^{11} \Omega_{k_8 k_7 k_1 k_2}^{13} \Omega_{k_8 k_4 k_5 k_6}^{64}}{\epsilon_{k_1 k_2} \epsilon_{k_3 k_1 k_2 k_4 k_5 k_6}} \frac{O_{k_1 k_2 k_7 k_4 k_5 k_6}^{40} \epsilon_{k_1 k_2 k_7 k_4 k_5 k_6}}{\epsilon_{k_1 k_2 k_7 k_4 k_5 k_6}}$$

$$(365)$$

T6:

$$T6 = \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_3 + a_4)(a_3 + a_4)a_4}$$

$$a_1 = \epsilon^{k_3 k_4 k_5 k_6}$$

$$a_2 = \epsilon^{k_7}_{k_3}$$

$$a_3 = \epsilon^{k_8}_{k_1 k_2 k_7}$$

$$a_4 = \epsilon_{k_4 k_5 k_6 k_8}$$
(366)

Diagram 177:

$$PO4.177 = \lim_{\tau \to \infty} \frac{(-1)^4}{(2!)(3!)} \sum_{k_i} O_{k_1 k_2}^{20} \Omega_{k_3 k_4 k_5 k_6}^{40} \Omega_{k_7 k_3 k_4 k_5}^{13} \Omega_{k_8 k_7}^{11} \Omega_{k_8 k_6 k_1 k_2}^{04} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3)$$

$$= \frac{(-1)^4}{(2!)(3!)} \sum_{k_i} \frac{O_{k_1 k_2}^{20} \Omega_{k_3 k_4 k_5 k_6}^{40} \Omega_{k_7 k_3 k_4 k_5}^{13} \Omega_{k_8 k_7}^{11} \Omega_{k_8 k_6 k_1 k_2}^{04}}{\epsilon_{k_1 k_2}} \frac{O_{k_1 k_2}^{20} \Omega_{k_3 k_4 k_5 k_6}^{40} \Omega_{k_7 k_3 k_4 k_5}^{13} \Omega_{k_8 k_6 k_1 k_2}^{14}}{\epsilon_{k_1 k_2} \epsilon_{k_3 k_4 k_5 k_1 k_2 k_6}} \frac{O_{k_8 k_6 k_1 k_2}^{13} \Omega_{k_8 k_6 k_1 k_2}^{40}}{\epsilon_{k_1 k_2 k_6 k_8}}$$

$$(367)$$

$$T6 = \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_3 + a_4)(a_3 + a_4)a_4}$$

$$a_1 = \epsilon^{k_3 k_4 k_5 k_6}$$

$$a_2 = \epsilon^{k_7}_{k_3 k_4 k_5}$$

$$a_3 = \epsilon^{k_8}_{k_7}$$

$$a_4 = \epsilon_{k_1 k_2 k_6 k_8}$$
(368)

Diagram 178:

PO4.178 =
$$\lim_{\tau \to \infty} \frac{(-1)^4}{(2!)(3!)} \sum_{k_i} O_{k_1 k_2}^{20} \Omega_{k_3 k_4}^{20} \Omega_{k_5 k_6 k_7 k_3}^{31} \Omega_{k_8 k_5 k_6 k_7}^{13} \Omega_{k_8 k_4 k_1 k_2}^{04} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3)$$

$$= \frac{(-1)^4}{(2!)(3!)} \sum_{k_i} \frac{O_{k_1 k_2}^{20} \Omega_{k_3 k_4}^{20} \Omega_{k_5 k_6 k_7 k_3}^{31} \Omega_{k_8 k_5 k_6 k_7}^{13} \Omega_{k_8 k_4 k_1 k_2}^{04}}{\epsilon_{k_1 k_2} \epsilon_{k_3 k_1 k_2 k_4}} \frac{O_{k_3 k_4}^{20} \Omega_{k_5 k_6 k_7 k_1 k_2 k_4}^{31} \epsilon_{k_1 k_2 k_4 k_8}}{\epsilon_{k_5 k_6 k_7 k_1 k_2 k_4}}$$

$$(369)$$

$$a_1 = \epsilon^{k_3 k_4}$$

$$a_2 = \epsilon^{k_5 k_6 k_7}_{k_3}$$

$$a_3 = \epsilon^{k_8}_{k_5 k_6 k_7}$$

$$a_4 = \epsilon_{k_1 k_2 k_4 k_8}$$

Diagram 179:

$$PO4.179 = \lim_{\tau \to \infty} \frac{(-1)^4}{(2!)} \sum_{k_i} O_{k_1 k_2}^{20} \Omega_{k_3 k_4}^{20} \Omega_{k_3 k_4}^{11} \Omega_{k_5 k_5}^{11} \Omega_{k_6 k_5}^{04} \Omega_{k_6 k_4 k_1 k_2}^{12} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon^{k_3 k_4}}$$

$$= \frac{(-1)^4}{(2!)} \sum_{k_i} \frac{O_{k_1 k_2}^{20} \Omega_{k_3 k_4}^{20} \Omega_{k_5 k_5}^{11} \Omega_{k_5 k_5}^{11} \Omega_{k_6 k_5}^{104} \Omega_{k_6 k_4 k_1 k_2}^{104}}{\epsilon_{k_1 k_2} \epsilon_{k_3 k_1 k_2 k_4} \epsilon_{k_5 k_1 k_2 k_4} \epsilon_{k_1 k_2 k_4 k_6}}$$

$$\rightarrow T6:$$

$$T6 = \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_3 + a_4)(a_3 + a_4)a_4}$$

$$a_1 = \epsilon^{k_5 k_4}$$

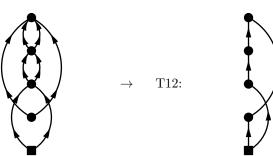
$$a_2 = \epsilon^{k_5}_{k_5}$$

$$a_3 = \epsilon^{k_6}_{k_5}$$

$$a_3 = \epsilon^{k_6}_{k_5}$$

Diagram 180:

$$PO4.180 = \lim_{\tau \to \infty} \frac{(-1)^4}{(2!)^4} \sum_{k_i} O_{k_1 k_2}^{20} \Omega_{k_3 k_4}^{20} \Omega_{k_5 k_6 k_1 k_2}^{22} \Omega_{k_7 k_8 k_5 k_6}^{22} \Omega_{k_7 k_8 k_5 k_6}^{04} \Omega_{k_7 k_8 k_3 k_4}^{10} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon^{k_3 k_4}} e^{-\tau_1 \epsilon^{k$$

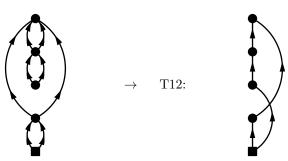


$$T12 = \frac{1}{(a_1 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_4)a_4} + \frac{1}{(a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_4)a_4} + \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_4)a_4} + \frac{1}{(a_1 + a_3 + a_4)(a_3 + a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_3 + a_4)(a_3 + a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_3 + a_4)(a_3 + a_1 + a_3 + a_4)(a_3 + a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_4)(a_3 + a_1 + a_3 + a_4)(a_3 + a_1 + a_2)(a_3 + a_2)(a_3$$

$$\begin{aligned} a_1 &= \epsilon^{k_3 k_4} \\ a_2 &= \epsilon^{k_5 k_6}_{k_1 k_2} \\ a_3 &= \epsilon^{k_7 k_8}_{k_5 k_6} \\ a_4 &= \epsilon_{k_3 k_4 k_7 k_8} \end{aligned}$$

Diagram 181:

$$PO4.181 = \lim_{\tau \to \infty} \frac{(-1)^4}{(2!)^4} \sum_{k_i} O_{k_1 k_2}^{20} \Omega_{k_3 k_4 k_1 k_2}^{22} \Omega_{k_5 k_6}^{20} \Omega_{k_7 k_8 k_5 k_6}^{22} \Omega_{k_7 k_8 k_3 k_4}^{04} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_{k_1 k_2}^{k_3 k_4}} e^{-\tau_1 \epsilon_{k_1 k_2}^{k_3 k_4}} e^{-\tau_1 \epsilon_{k_1 k_2}^{k_3 k_4}} e^{-\tau_1 \epsilon_{k_1 k_2}^{k_3 k_4}} \frac{1}{(2!)^4} \sum_{k_i} O_{k_1 k_2}^{20} \Omega_{k_3 k_4 k_1 k_2}^{22} \Omega_{k_5 k_6}^{20} \Omega_{k_7 k_8 k_5 k_6}^{22} \Omega_{k_7 k_8 k_5 k_6}^{04} \Omega_{k_7 k_8 k_3 k_4}^{04} \left[\frac{1}{\epsilon_{k_1 k_2 k_7 k_8}} \frac{1}{\epsilon_{k_1 k_2 k_5 k_6}} \frac{1}{\epsilon$$



$$T12 = \frac{1}{(a_1 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_4)a_4} + \frac{1}{(a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_4)a_4} + \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_3 + a_4)(a_3 + a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_2 + a_$$

$$a_1 = \epsilon_{k_1 k_2}^{k_3 k_4}$$

$$a_2 = \epsilon^{k_5 k_6}$$

$$a_3 = \epsilon_{k_5 k_6}^{k_7 k_8}$$

$$a_4 = \epsilon_{k_3 k_4 k_7 k_8}$$

Diagram 182:

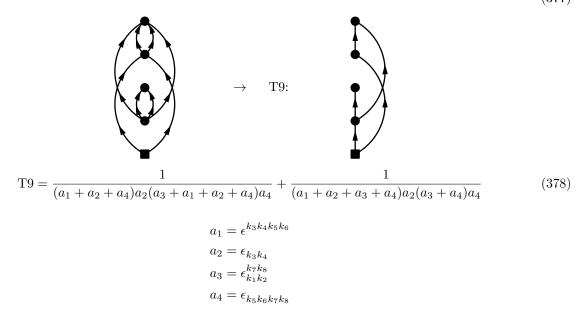


Diagram 183:

$$T9 = \frac{1}{(a_1 + a_2 + a_4)a_2(a_3 + a_1 + a_2 + a_4)a_4} + \frac{1}{(a_1 + a_2 + a_3 + a_4)a_2(a_3 + a_4)a_4}$$

$$a_1 = \epsilon^{k_3 k_4 k_5 k_6}$$

$$a_2 = \epsilon_{k_1 k_2 k_3 k_4}$$

$$a_3 = \epsilon^{k_7 k_8}$$

$$a_4 = \epsilon_{k_7 k_8 k_7 k_8}$$

$$a_4 = \epsilon_{k_7 k_8 k_7 k_8}$$

$$a_4 = \epsilon_{k_7 k_8 k_7 k_8}$$

$$a_5 = \epsilon^{k_7 k_8}$$

$$a_6 = \epsilon_{k_7 k_8 k_7 k_8}$$

$$a_8 = \epsilon_{k_7 k_8 k_7 k_8}$$

$$a_8 = \epsilon_{k_7 k_8 k_7 k_8}$$

$$a_9 = \epsilon_{k_7 k_8 k_7 k_8}$$

$$a_9 = \epsilon_{k_7 k_8 k_7 k_8}$$

Diagram 184:

Diagram 185:

$$PO4.185 = \lim_{\tau \to \infty} \frac{(-1)^4}{(2!)^2} \sum_{k_i} O_{k_1 k_2}^{20} \Omega_{k_3 k_4 k_5 k_6}^{40} \Omega_{k_3 k_4}^{02} \Omega_{k_7 k_5 k_1 k_2}^{13} \Omega_{k_7 k_6}^{02} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_1} d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_1} d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_1} d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_1} d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_1) \theta($$

Diagram 186:

$$PO4.186 = \lim_{\tau \to \infty} \frac{(-1)^4}{(2!)^2} \sum_{k_i} O_{k_1 k_2}^{20} \Omega_{k_3 k_4 k_5 k_6}^{40} \Omega_{k_3 k_4 k_5 k_6}^{02} \Omega_{k_7 k_5}^{40} \Omega_{k_7 k_6 k_1 k_2}^{11} \int_{0}^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon}$$

$$= \frac{(-1)^4}{(2!)^2} \sum_{k_i} \frac{O_{k_1 k_2}^{20} \Omega_{k_3 k_4 k_5 k_6}^{40} \Omega_{k_3 k_4}^{20} \Omega_{k_7 k_5}^{11} \Omega_{k_7 k_6 k_1 k_2}^{04}}{\epsilon_{k_1 k_2}}$$

$$\rightarrow T5:$$

$$T5 = \frac{1}{(a_1 + a_2 + a_3 + a_4) a_2(a_3 + a_4) a_4}$$

$$a_1 = \epsilon^{k_3 k_4 k_5 k_6}$$

$$a_2 = \epsilon_{k_3 k_4}$$

$$a_3 = \epsilon^{k_7}_{k_5}$$

$$a_4 = \epsilon_{k_1 k_2 k_6 k_7}$$

Diagram 187:

$$PO4.187 = \lim_{\tau \to \infty} \frac{(-1)^4}{(2!)^4} \sum_{k_i} O_{k_1 k_2}^{20} \Omega_{k_3 k_4 k_5 k_6}^{40} \Omega_{k_3 k_4}^{02} \Omega_{k_7 k_8 k_5 k_6}^{20} \Omega_{k_7 k_8 k_5 k_6}^{04} \Omega_{k_7 k_8 k_1 k_2}^{07} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon^{k_3 k_4 k_5 k_6}}$$

$$= \frac{(-1)^4}{(2!)^4} \sum_{k_i} \frac{O_{k_1 k_2}^{20} \Omega_{k_3 k_4 k_5 k_6}^{40} \Omega_{k_3 k_4}^{22} \Omega_{k_7 k_8 k_5 k_6}^{20} \Omega_{k_7 k_8 k_1 k_2}^{40}}{\epsilon_{k_1 k_2} \epsilon_{k_3 k_4} \epsilon_{k_5 k_6 k_1 k_2} \epsilon_{k_1 k_2 k_7 k_8}}$$

$$\rightarrow T5:$$

$$(387)$$

$$T5 = \frac{1}{(a_1 + a_2 + a_3 + a_4)a_2(a_3 + a_4)a_4}$$

$$a_1 = \epsilon^{k_3 k_4 k_5 k_6}$$

$$a_2 = \epsilon_{k_3 k_4}$$

$$a_3 = \epsilon^{k_7 k_8}_{k_5 k_6}$$

$$a_4 = \epsilon_{k_5 k_5 k_6}$$

$$a_4 = \epsilon_{k_5 k_5 k_5}$$
(388)

Diagram 188:

$$PO4.188 = \lim_{\tau \to \infty} \frac{(-1)^4}{(2!)^4} \sum_{k_i} O_{k_1 k_2}^{20} \Omega_{k_3 k_4 k_5 k_6}^{40} \Omega_{k_3 k_4 k_1 k_2}^{02} \Omega_{k_7 k_8 k_5 k_6}^{20} \Omega_{k_7 k_8}^{02} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon^{k_3 k_4 k_5 k_6}}$$

$$= \frac{(-1)^4}{(2!)^4} \sum_{k_i} \frac{O_{k_1 k_2}^{20} \Omega_{k_3 k_4 k_5 k_6}^{40} \Omega_{k_3 k_4 k_5 k_6}^{04} \Omega_{k_7 k_8 k_5 k_6}^{04} \Omega_{k_7 k_8}^{02}}{\epsilon_{k_1 k_2} \epsilon_{k_1 k_2 k_3 k_4}} \frac{O_{k_7 k_8 k_5 k_6}^{02} \Omega_{k_7 k_8}^{02}}{\epsilon_{k_7 k_8}}$$

$$\rightarrow T5:$$

$$T5 = \frac{1}{(a_1 + a_2 + a_3 + a_4) a_2 (a_3 + a_4) a_4}$$

$$a_1 = \epsilon^{k_3 k_4 k_5 k_6}$$

$$a_2 = \epsilon_{k_1 k_2 k_3 k_4}$$

$$a_3 = \epsilon^{k_7 k_8}_{k_5 k_6}$$

$$a_4 = \epsilon_{k_7 k_8}$$

$$a_4 = \epsilon_{k_7 k_8}$$

$$a_4 = \epsilon_{k_7 k_8}$$

$$a_4 = \epsilon_{k_7 k_8}$$

Diagram 189:

$$PO4.189 = \lim_{\tau \to \infty} \frac{-(-1)^4}{(2!)(3!)} \sum_{k_i} O_{k_1 k_2 k_3 k_4}^{40} \Omega_{k_5 k_6 k_7 k_8}^{40} \Omega_{k_5 k_1 k_2 k_3}^{04} \Omega_{k_6 k_4}^{02} \Omega_{k_7 k_8}^{02} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_1) e^{-\tau_1 \epsilon^{k_5 k_6 k_6 k_7 k_8}}$$

$$= \frac{-(-1)^4}{(2!)(3!)} \sum_{k_i} \frac{O_{k_1 k_2 k_3 k_4}^{40} \Omega_{k_5 k_6 k_7 k_8}^{40} \Omega_{k_5 k_1 k_2 k_3}^{02} \Omega_{k_5 k_4}^{02} \Omega_{k_7 k_8}^{02}}{\epsilon_{k_1 k_2 k_3 k_4} \epsilon_{k_1 k_2 k_3 k_5} \epsilon_{k_4 k_6} \epsilon_{k_7 k_8}}$$

$$\rightarrow T3:$$

$$T3 = \frac{1}{(a_1 + a_2 + a_3 + a_4) a_2 a_3 a_4}$$

$$a_1 = \epsilon^{k_5 k_6 k_7 k_8}$$

$$a_2 = \epsilon_{k_1 k_2 k_3 k_5}$$

$$a_3 = \epsilon_{k_4 k_6}$$

$$a_4 = \epsilon_{k_7 k_8}$$

$$a_4 = \epsilon_{k_7 k_8}$$

$$a_4 = \epsilon_{k_7 k_8}$$

Diagram 190:

$$PO4.190 = \lim_{\tau \to \infty} \frac{-(-1)^4}{(2!)(3!)} \sum_{k_i} O_{k_1 k_2 k_3 k_4}^{40} \Omega_{k_2 k_6}^{20} \Omega_{k_2 k_3 k_5 k_6}^{22} \Omega_{k_2 k_4 k_2 k_3}^{60} \Omega_{k_2 k_4 k_2 k_3}^{62} \Omega_{k_3 k_4}^{62} \int_{0}^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_2) e^{-\tau_1 \epsilon^{k_5 k_6}} e^{-\tau_1 \epsilon^{k_5 k_6}} \Omega_{k_1 k_2 k_3 k_4}^{20} \Omega_{k_2 k_4 k_5}^{20} \Omega_{$$

 $a_4 = \epsilon_{k_4 k_8}$

Diagram 191:

$$PO4.191 = \lim_{\tau \to \infty} \frac{(-1)^4}{(2!)(3!)} \sum_{k_i} O_{k_1 k_2 k_3 k_4}^{40} \Omega_{k_5 k_1}^{11} \Omega_{k_6 k_7 k_8 k_5}^{31} \Omega_{k_6 k_2 k_3 k_4}^{04} \Omega_{k_7 k_8}^{02} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_2) e^{-\tau_1 \epsilon_{k_1}^{k_5}} e^{$$

Diagram 192:

$$PO4.192 = \lim_{\tau \to \infty} \frac{(-1)^4}{(2!)(3!)} \sum_{k_i} O_{k_1 k_2 k_3 k_4}^{40} \Omega_{k_5 k_1 k_2 k_3}^{13} \Omega_{k_6 k_7 k_8 k_5}^{31} \Omega_{k_6 k_4}^{02} \Omega_{k_7 k_8}^{02} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_2) e^{-\tau_1 \epsilon_{k_1 k_2 k_3}^{k_5}}$$

$$= \frac{(-1)^4}{(2!)(3!)} \sum_{k_i} \frac{O_{k_1 k_2 k_3 k_4}^{40} \Omega_{k_5 k_1 k_2 k_3}^{13} \Omega_{k_6 k_7 k_8 k_5}^{31} \Omega_{k_6 k_7 k_8}^{02} \Omega_{k_7 k_8}^{02}}{\epsilon_{k_1 k_2 k_3 k_4} \epsilon_{k_5 k_4} \epsilon_{k_4 k_6} \epsilon_{k_7 k_8}}$$

$$(397)$$

Diagram 193:

Diagram 194:

$$PO4.194 = \lim_{\tau \to \infty} \frac{(-1)^4}{(2!)(3!)} \sum_{k_i} O_{k_1 k_2 k_3 k_4}^{40} \Omega_{k_5 k_6 k_7 k_1}^{31} \Omega_{k_8 k_9 k_5 k_6}^{22} \Omega_{k_8 k_2 k_3 k_4}^{04} \Omega_{k_9 k_7}^{02} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_1) \theta(\tau_4$$

$$T7 = \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_3 + a_4)a_3a_4}$$

$$a_1 = \epsilon_{k_1}^{k_5 k_6 k_7}$$

$$a_2 = \epsilon_{k_5 k_6}^{k_8 k_9}$$

$$a_3 = \epsilon_{k_2 k_3 k_4 k_8}$$

$$a_4 = \epsilon_{k_7 k_9}$$

$$(402)$$

Diagram 195:

$$PO4.195 = \lim_{\tau \to \infty} \frac{-(-1)^4}{(2!)(3!)} \sum_{k_i} O_{k_1 k_2 k_3 k_4}^{40} \Omega_{k_5 k_6}^{20} \Omega_{k_7 k_8 k_9 k_5}^{31} \Omega_{k_7 k_1 k_2 k_3}^{04} \Omega_{k_8 k_9 k_6 k_4}^{04} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_1) \theta(\tau_$$

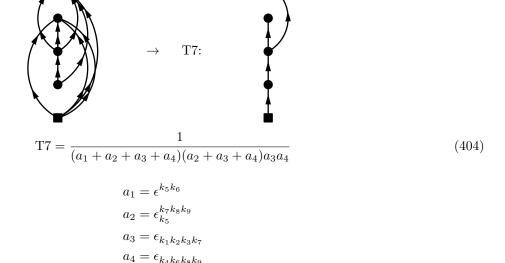
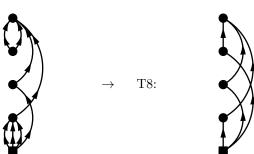


Diagram 196:

$$PO4.196 = \lim_{\tau \to \infty} \frac{-(-1)^4}{(2!)(3!)} \sum_{k_i} O_{k_1 k_2 k_3 k_4}^{40} \Omega_{k_5 k_1 k_2 k_3}^{13} \Omega_{k_6 k_4}^{11} \Omega_{k_7 k_8}^{20} \Omega_{k_7 k_8 k_6 k_5}^{04} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_{k_1 k_2 k_3}^{k_5} \epsilon_{k_1 k_2 k_3}} d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_{k_1 k_2 k_3 k_4}^{k_5} \epsilon_{k_1 k_2 k_3 k_4}} d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_{k_1 k_2 k_3 k_4 k_5 k_5}^{k_5} \epsilon_{k_1 k_2 k_3 k_4}} d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_{k_1 k_2 k_3 k_4 k_5 k_5}^{k_5} \epsilon_{k_1 k_2 k_3 k_4}} d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_{k_1 k_2 k_3 k_4}^{k_5} \epsilon_{k_1 k_2 k_3 k_4}} d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_{k_1 k_2 k_3 k_4}^{k_5} \epsilon_{k_1 k_2 k_3 k_4}} d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_{k_1 k_2 k_3 k_4}^{k_5} \epsilon_{k_1 k_2 k_3 k_4}} d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_{k_1 k_2 k_3 k_4}^{k_5} \epsilon_{k_1 k_2 k_3 k_4}} d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_{k_1 k_2 k_3 k_4}^{k_5} \epsilon_{k_1 k_2 k_3 k_4}^{k_5} \epsilon_{k_1 k_2 k_3 k_4}^{k_5} d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_{k_1 k_2 k_3 k_4}^{k_5} \epsilon_{k_1 k_2 k_3 k_4}^{k_5} d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_{k_1 k_2 k_3 k_4}^{k_5} \epsilon_{k_1 k_2 k_3 k_4}^{k_5} d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_{k_1 k_2 k_3 k_4}^{k_5} \epsilon_{k_1 k_2 k_3 k_4}^{k_5} d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_{k_1 k_2 k_3 k_4}^{k_5} d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_{k_1 k_2 k_3 k_4}^{k_5} d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_{k_1 k_2 k_3 k_4}^{k_5} d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_{k_1 k_2 k_3 k_4}^{k_5} d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_{k_1 k_2 k_3 k_4}^{k_5} d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4$$



$$T8 = \frac{1}{(a_1 + a_2 + a_4)(a_2 + a_4)(a_3 + a_1 + a_2 + a_4)a_4} + \frac{1}{(a_1 + a_4)(a_2 + a_1 + a_4)(a_3 + a_1 + a_2 + a_4)a_4} + \frac{1}{(a_1 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_2 + a_4)a_4} + \frac{1}{(a_1 + a_4)(a_2 + a_1 + a_2 + a_4)a_4} + \frac{1}{(a_1 + a_4)(a_2 + a_1 + a_2 + a_4)(a_3 + a_1 + a_2 + a_4)a_4} + \frac{1}{(a_1 + a_4)(a_2 + a_1 + a_2 + a_4)(a_3 + a_1 + a_2 + a_4)a_4} + \frac{1}{(a_1 + a_4)(a_2 + a_1 + a_2 + a_4)(a_3 + a_1 + a_2 + a_4)a_4} + \frac{1}{(a_1 + a_4)(a_2 + a_1 + a_2 + a_4)(a_3 + a_1 + a_2 + a_4)a_4} + \frac{1}{(a_1 + a_4)(a_2 + a_1 + a_2 + a_4)(a_3 + a_1 + a_2 + a_4)a_4} + \frac{1}{(a_1 + a_4)(a_2 + a_1 + a_2 + a_4)(a_3 + a_1 + a_2 + a_4)a_4} + \frac{1}{(a_1 + a_4)(a_2 + a_1 + a_2 + a_4)(a_3 + a_1 + a_2 + a_4)a_4} + \frac{1}{(a_1 + a_4)(a_2 + a_1 + a_2 + a_4)(a_3 + a_1 + a_2 + a_4)a_4} + \frac{1}{(a_1 + a_4)(a_2 + a_1 + a_2 + a_4)(a_3 + a_1 + a_2 + a_4)a_4} + \frac{1}{(a_1 + a_4)(a_2 + a_1 + a_2 + a_4)(a_3 + a_1 + a_2 + a_4)a_4} + \frac{1}{(a_1 + a_4)(a_2 + a_1 + a_2 + a_4)(a_3 + a_1 + a_2 + a_4)a_4} + \frac{1}{(a_1 + a_4)(a_2 + a_1 + a_2 + a_4)(a_3 + a_1 + a_2 + a_4)a_4} + \frac{1}{(a_1 + a_4)(a_2 + a_1 + a_2 + a_4)(a_3 + a_1 + a_2 + a_4)a_4} + \frac{1}{(a_1 + a_2)(a_2 + a_1 + a_2 + a_4)(a_3 + a_1 + a_2 + a_4)a_4} + \frac{1}{(a_1 + a_2)(a_2 + a_1 + a_2 + a_4)(a_3 + a_1 + a_2 + a_4)a_4} + \frac{1}{(a_1 + a_2)(a_2 + a_1 + a_2 + a_4)(a_3 + a_1 + a_2 + a_4)a_4} + \frac{1}{(a_1 + a_2)(a_2 + a_1 + a_2 + a_4)(a_3 + a_1 + a_2 + a_4)a_4} + \frac{1}{(a_1 + a_2)(a_2 + a_1 + a_2 + a_4)(a_3 + a_1 + a_2 + a_4)a_4} + \frac{1}{(a_1 + a_2)(a_2 + a_1 + a_2 + a_4)(a_3 + a_1 + a_2 + a_4)a_4} + \frac{1}{(a_1 + a_2)(a_2 + a_1 + a_2 + a_4)(a_3 + a_1 + a_2 + a_4)a_4} + \frac{1}{(a_1 + a_2)(a_2 + a_1 + a_2 + a_4)(a_3 + a_1 + a_2 + a_4)a_4} + \frac{1}{(a_1 + a_2)(a_2 + a_1 + a_2 + a_4)(a_3 + a_1 + a_2 + a_4)a_4} + \frac{1}{(a_1 + a_2)(a_2 + a_1 + a_2 + a_4)(a_2 + a_1 + a_2 + a_4)a_4} + \frac{1}{(a_1 + a_2)(a_2 + a_1 + a_2 + a_4)(a_2 + a_1$$

$$a_{1} = \epsilon_{k_{1}k_{2}k_{3}}^{k_{5}}$$

$$a_{2} = \epsilon_{k_{4}}^{k_{6}}$$

$$a_{3} = \epsilon_{k_{5}k_{6}k_{7}k_{8}}^{k_{7}k_{8}}$$

$$a_{4} = \epsilon_{k_{5}k_{6}k_{7}k_{8}}$$

Diagram 197:

$$\begin{aligned} \text{PO4.197} &= \lim_{\tau \to \infty} \frac{-(-1)^4}{(2!)(3!)} \sum_{k_i} O_{k_1 k_2 k_3 k_4}^{40} \Omega_{k_5 k_1 k_2 k_3}^{13} \Omega_{k_6 k_7 k_8 k_4}^{31} \Omega_{k_9 k_6}^{11} \Omega_{k_9 k_6}^{04} \Omega_{k_9 k_7 k_8 k_5}^{10} \int_0^{\tau} \mathrm{d}\tau_1 \mathrm{d}\tau_2 \mathrm{d}\tau_3 \mathrm{d}\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 -$$



$$T12 = \frac{1}{(a_1 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_4)a_4} + \frac{1}{(a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_4)a_4} + \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_3 + a_4)(a_3 + a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_2 + a_3 + a_4)(a_3 + a_1 + a_3 + a_4)(a_3 + a_1 + a_2)(a_3 + a_1 + a_2 + a_2)(a_3 + a_1 + a_2 + a_2)(a_3 + a_1 + a_2 + a_3 + a_4)(a_3 + a_1 + a_2 + a_2$$

$$a_{1} = \epsilon_{k_{1}k_{2}k_{3}}^{k_{5}}$$

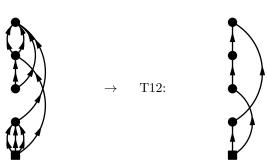
$$a_{2} = \epsilon_{k_{4}}^{k_{6}k_{7}k_{8}}$$

$$a_{3} = \epsilon_{k_{6}}^{k_{9}}$$

$$a_{4} = \epsilon_{k_{5}k_{7}k_{9}k_{6}}$$

Diagram 198:

$$PO4.198 = \lim_{\tau \to \infty} \frac{(-1)^4}{(2!)(3!)} \sum_{k_i} O_{k_1 k_2 k_3 k_4}^{40} \Omega_{k_5 k_1 k_2 k_3}^{13} \Omega_{k_6 k_7}^{20} \Omega_{k_8 k_9 k_6 k_4}^{22} \Omega_{k_8 k_9 k_7 k_5}^{60} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_2) \theta(\tau_4$$

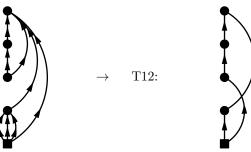


$$T12 = \frac{1}{(a_1 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_4)a_4} + \frac{1}{(a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_4)a_4} + \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_4)a_4} + \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_3 + a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_4)(a_3 + a_4)(a_3 + a_4)(a_4 + a_4)(a_4$$

$$\begin{aligned} a_1 &= \epsilon_{k_1 k_2 k_3}^{k_5} \\ a_2 &= \epsilon^{k_6 k_7} \\ a_3 &= \epsilon_{k_4 k_6}^{k_8 k_9} \\ a_4 &= \epsilon_{k_5 k_7 k_8 k_9} \end{aligned}$$

Diagram 199:

$$PO4.199 = \lim_{\tau \to \infty} \frac{(-1)^4}{(3!)} \sum_{k_i} O_{k_1 k_2 k_3 k_4}^{40} \Omega_{k_5 k_1 k_2 k_3}^{13} \Omega_{k_6 k_7}^{20} \Omega_{k_8 k_6}^{11} \Omega_{k_8 k_7 k_5 k_4}^{04} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_2} d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_4} d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_4} d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_4} d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_4} d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_4} d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_4} d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_4} d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_4} d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_4} d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_4} d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_4} d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_4} d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_4} d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_4} d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_4} d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_4} d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_4} d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_4} d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_4} d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_4} d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_4} d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_4} d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_4} d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_4} d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_4} d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_4} d\tau_4 \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) \theta(\tau_4 - \tau_4) \theta(\tau$$



$$T12 = \frac{1}{(a_1 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_4)a_4} + \frac{1}{(a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_4)a_4} + \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_4)(a_3 + a_4)(a_4 + a_1 + a_3 + a_4)(a_4 + a_1 + a_4)(a_4 + a_4)$$

$$a_{1} = \epsilon_{k_{1}k_{2}k_{3}}^{k_{5}}$$

$$a_{2} = \epsilon^{k_{6}k_{7}}$$

$$a_{3} = \epsilon_{k_{6}}^{k_{8}}$$

$$a_{4} = \epsilon_{k_{4}k_{5}k_{7}k_{5}}$$

Diagram 200:

$$PO4.200 = \lim_{\tau \to \infty} \frac{(-1)^4}{(3!)} \sum_{k_i} O_{k_1 k_2 k_3 k_4}^{40} \Omega_{k_5 k_1 k_2 k_3}^{13} \Omega_{k_6 k_7 k_5 k_4}^{22} \Omega_{k_8 k_6}^{11} \Omega_{k_8 k_6}^{02} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_2} d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_2} d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_2} d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_2} d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_2} d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_2} d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_2} d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_2} d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_2} d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_2} d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_2} d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_2} d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_2} d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_2} d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_2} d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_2} d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_2} d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_2} d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_2} d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_2} d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_2} d\tau_4 \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_2} d\tau_4 \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_4} d\tau_4 \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_4} d\tau_4 \theta(\tau_4 - \tau_4) \theta(\tau_4$$



$$T6 = \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_3 + a_4)(a_3 + a_4)a_4}$$

$$a_1 = \epsilon_{k_1 k_2 k_3}^{k_5}$$

$$a_2 = \epsilon_{k_4 k_5}^{k_6 k_7}$$

$$a_3 = \epsilon_{k_6}^{k_8}$$

$$a_4 = \epsilon_{k_7 k_8}$$

$$(414)$$

Diagram 201:

$$PO4.201 = \lim_{\tau \to \infty} \frac{-(-1)^4}{(2!)(3!)} \sum_{k_i} O_{k_1 k_2 k_3 k_4}^{40} \Omega_{k_3 k_1 k_2 k_3}^{13} \Omega_{k_6 k_7 k_8 k_5}^{31} \Omega_{k_9 k_6 k_7 k_4}^{13} \Omega_{k_9 k_8}^{02} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_2) \theta(\tau_$$

Diagram 202:

$$PO4.202 = \lim_{\tau \to \infty} \frac{(-1)^4}{(2!)(3!)} \sum_{k_i} O_{k_1 k_2 k_3 k_4}^{40} \Omega_{k_5 k_1 k_2 k_3}^{13} \Omega_{k_6 k_7 k_8 k_5}^{21} \Omega_{k_9 k_6}^{10} \Omega_{k_9 k_7 k_8 k_4}^{01} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_2) \theta(\tau_4$$

Diagram 203:

$$PO4.203 = \lim_{\tau \to \infty} \frac{(-1)^4}{(3!)^2} \sum_{k_i} O_{k_1 k_2 k_3 k_4}^{40} \Omega_{k_1 k_2 k_3 k_4}^{11} \Omega_{k_6 k_7 k_8 k_5}^{31} \Omega_{k_9 k_6 k_7 k_8}^{13} \Omega_{k_9 k_2 k_3 k_4}^{04} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_{k_1}^{k_5} \Omega_{k_9 k_2 k_3 k_4}^{13} \Omega_{k_5 k_1}^{13} \Omega_{k_6 k_7 k_8 k_5}^{13} \Omega_{k_9 k_6 k_7 k_8}^{13} \Omega_{k_9 k_2 k_3 k_4}^{04}$$

$$= \frac{(-1)^4}{(3!)^2} \sum_{k_i} \frac{O_{k_1 k_2 k_3 k_4}^{40} \Omega_{k_5 k_1}^{11} \Omega_{k_6 k_7 k_8 k_5}^{31} \Omega_{k_9 k_6 k_7 k_8}^{13} \Omega_{k_9 k_2 k_3 k_4}^{04}}{\epsilon_{k_1 k_2 k_3 k_4} \epsilon_{k_5 k_2 k_3 k_4} \epsilon_{k_6 k_7 k_8 k_2 k_3 k_4}$$

$$(419)$$

$$T6 = \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_3 + a_4)(a_3 + a_4)a_4}$$

$$a_1 = \epsilon_{k_1}^{k_5}$$

$$a_2 = \epsilon_{k_5}^{k_6 k_7 k_8}$$

$$a_3 = \epsilon_{k_6 k_7 k_8}^{k_9}$$

$$a_4 = \epsilon_{k_2 k_3 k_4 k_9}$$

$$420)$$

Diagram 204:

$$PO4.204 = \lim_{\tau \to \infty} \frac{(-1)^4}{(3!)} \sum_{k_i} O_{k_1 k_2 k_3 k_4}^{40} \Omega_{k_5 k_1}^{11} \Omega_{k_6 k_5}^{11} \Omega_{k_7 k_6}^{10} \Omega_{k_7 k_2 k_3 k_4}^{04} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_{k_1}^{k_5}} e^{-\tau_2 \epsilon_{k_5}^{k_6}} e^{-\tau_2 \epsilon_{k_5}^{k_6}} e^{-\tau_2 \epsilon_{k_5}^{k_5}} e^{-\tau_2 \epsilon_{k_5}$$

 $a_4 = \epsilon_{k_2 k_3 k_4 k_5}$

Diagram 205:

$$PO4.205 = \lim_{\tau \to \infty} \frac{(-1)^4}{(3!)^2} \sum_{k_i} O_{k_1 k_2 k_3 k_4}^{40} \Omega_{k_1 k_2 k_3 k_4}^{31} \Omega_{k_8 k_5 k_6 k_7}^{13} \Omega_{k_8 k_5}^{11} \Omega_{k_9 k_8}^{04} \Omega_{k_9 k_2 k_3 k_4}^{4} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_{k_1}^{k_5 k_5}} e^{-\tau_1 \epsilon_{k_1}^$$

$$T6 = \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_3 + a_4)(a_3 + a_4)a_4}$$

$$a_1 = \epsilon_{k_1}^{k_5 k_6 k_7}$$

$$a_2 = \epsilon_{k_5}^{k_8}$$

$$a_3 = \epsilon_{k_8}^{k_9}$$

$$a_4 = \epsilon_{k_1} + \epsilon_{k_2} + \epsilon_{k_3}$$

$$a_4 = \epsilon_{k_4} + \epsilon_{k_5} + \epsilon_{k_5}$$

$$a_4 = \epsilon_{k_5} + \epsilon_{k_5} + \epsilon_{k_5} + \epsilon_{k_5}$$

$$a_4 = \epsilon_{k_5} + \epsilon_{k_5}$$

Diagram 206:

$$PO4.206 = \lim_{\tau \to \infty} \frac{(-1)^4}{(3!)^2} \sum_{k_i} O_{k_1 k_2 k_3 k_4}^{40} \Omega_{k_5 k_1 k_2 k_3}^{13} \Omega_{k_6 k_7 k_8 k_5}^{31} \Omega_{k_9 k_6 k_7 k_8}^{13} \Omega_{k_9 k_4}^{02} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_{k_1 k_2 k_3 k_4}^{k_5 k_4 k_4 k_5}} \Omega_{k_9 k_6 k_7 k_8 k_5}^{13} \Omega_{k_9 k_6 k_7 k_8}^{02} \Omega_{k_9 k_4}^{02}$$

$$= \frac{(-1)^4}{(3!)^2} \sum_{k_i} \frac{O_{k_1 k_2 k_3 k_4}^{40} \Omega_{k_5 k_1 k_2 k_3}^{13} \Omega_{k_6 k_7 k_8 k_5}^{31} \Omega_{k_9 k_6 k_7 k_8}^{13} \Omega_{k_9 k_4}^{02}}{\epsilon_{k_1 k_2 k_3 k_4}^{4} \epsilon_{k_5 k_4}^{4} \epsilon_{k_6 k_7 k_8 k_4}^{4} \epsilon_{k_4 k_9}}$$

$$\rightarrow T6:$$

$$(425)$$

$$T6 = \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_3 + a_4)(a_3 + a_4)a_4}$$

$$a_1 = \epsilon_{k_1 k_2 k_3}^{k_5}$$

$$a_2 = \epsilon_{k_5 k_7 k_8}^{k_6 k_7 k_8}$$

$$a_3 = \epsilon_{k_6 k_7 k_8}^{k_9}$$

$$a_4 = \epsilon_{k_4 k_9}$$

$$a_4 = \epsilon_{k_4 k_9}$$
(426)

Diagram 207:

$$a_1 = \epsilon_{k_1 k_2 k_3}^{k_5}$$

$$a_2 = \epsilon_{k_5}^{k_6}$$

$$a_3 = \epsilon_{k_6}^{k_7}$$

$$a_4 = \epsilon_{k_4 k_7}$$

Diagram 208:

$$PO4.208 = \lim_{\tau \to \infty} \frac{(-1)^4}{(3!)^2} \sum_{k_i} O_{k_1 k_2 k_3 k_4}^{40} \Omega_{k_5 k_1 k_2 k_3}^{13} \Omega_{k_6 k_5}^{11} \Omega_{k_7 k_8 k_9 k_6}^{31} \Omega_{k_7 k_8 k_9 k_4}^{13} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_{k_1 k_2 k_3 k_4}^{k_5}} \frac{(-1)^4}{(3!)^2} \sum_{k_i} \frac{O_{k_1 k_2 k_3 k_4}^{40} \Omega_{k_5 k_1 k_2 k_3}^{13} \Omega_{k_6 k_5}^{11} \Omega_{k_7 k_8 k_9 k_6}^{31} \Omega_{k_7 k_8 k_9 k_4}^{40}}{\epsilon_{k_1 k_2 k_3 k_4} \epsilon_{k_5 k_4} \epsilon_{k_6 k_4} \epsilon_{k_4 k_7 k_8 k_9}}$$

$$\rightarrow T6:$$

$$T6 = \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_3 + a_4)(a_3 + a_4)a_4}$$

$$a_1 = \epsilon_{k_1 k_2 k_3}^{k_5}$$

$$a_2 = \epsilon_{k_6}^{k_5}$$

$$a_3 = \epsilon_{k_7 k_8 k_9}^{k_7 k_8 k_9}$$

$$a_3 = \epsilon_{k_7 k_8 k_9}^{k_7 k_8 k_9}$$

$$a_4 = \epsilon_{k_7 k_8 k_9}^{k_7 k_8 k_9}$$

$$a_4 = \epsilon_{k_7 k_8 k_9}^{k_5}$$

Diagram 209:

$$PO4.209 = \lim_{\tau \to \infty} \frac{(-1)^4}{(2!)(3!)} \sum_{k_i} O_{k_1 k_2 k_3 k_4}^{40} \Omega_{k_5 k_6}^{20} \Omega_{k_7 k_5 k_6 k_1}^{13} \Omega_{k_8 k_7}^{11} \Omega_{k_8 k_2 k_3 k_4}^{04} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon^{k_5 k_6}} e^{-\tau_1 \epsilon^{k_5$$

 $a_4 = \epsilon_{k_2 k_3 k_4 k_8}$

Diagram 210:

 $a_4 = \epsilon_{k_2 k_2 k_4 k_6}$

Diagram 211:

Diagram 212:

Diagram 213:

$$PO4.213 = \lim_{\tau \to \infty} \frac{(-1)^4}{(3!)} \sum_{k_i} O_{k_1 k_2 k_3 k_4}^{40} \Omega_{k_5 k_6}^{20} \Omega_{k_7 k_5}^{13} \Omega_{k_8 k_7 k_6 k_1}^{13} \Omega_{k_8 k_2 k_3 k_4}^{40} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e$$

$$= \frac{(-1)^4}{(3!)} \sum_{k_i} \frac{O_{k_1 k_2 k_3 k_4}^{40} \Omega_{k_5 k_6}^{20} \Omega_{k_5 k_5}^{11} \Omega_{k_8 k_2 k_3 k_4}^{13} \Omega_{k_8 k_2 k_3 k_4}^{00}}{\epsilon_{k_1 k_2 k_3 k_4} \epsilon_{k_5 k_1 k_6 k_2 k_3 k_4} \epsilon_{k_1 k_6 k_7 k_2 k_3 k_4} \epsilon_{k_2 k_3 k_4 k_8}}$$

$$\rightarrow T6:$$

$$T6 = \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_3 + a_4)(a_3 + a_4)a_4}$$

$$a_1 = \epsilon^{k_5 k_6}$$

$$a_2 = \epsilon^{k_7}_{k_5}$$

$$a_3 = \epsilon^{k_5}_{k_1 k_6 k_7}$$

$$a_3 = \epsilon^{k_5}_{k_5}$$

$$a_3 = \epsilon^{k_5}_{k_1 k_6 k_7}$$

Diagram 214:

$$PO4.214 = \lim_{\tau \to \infty} \frac{-(-1)^4}{(2!)(3!)} \sum_{k_i} O_{k_1 k_2 k_3 k_4}^{40} \Omega_{k_5 k_6}^{20} \Omega_{k_7 k_8 k_5 k_1}^{22} \Omega_{k_9 k_7 k_8 k_6}^{13} \Omega_{k_9 k_7 k_8 k_6}^{04} \Omega_{k_9 k_2 k_3 k_4}^{04} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_1) \theta(\tau_1) \theta(\tau_2 - \tau_1) \theta(\tau_2 - \tau_1) \theta(\tau_1) \theta(\tau_2 - \tau_1) \theta(\tau_2 - \tau_1) \theta(\tau_1) \theta(\tau_2 - \tau_1) \theta(\tau_2 - \tau_1) \theta(\tau_2 - \tau_1) \theta(\tau_1) \theta(\tau_2 - \tau_1) \theta(\tau_2 - \tau_1) \theta(\tau_1) \theta(\tau_2 - \tau_1) \theta(\tau_2 - \tau_1) \theta(\tau_1) \theta(\tau_2 - \tau_1) \theta(\tau_2 - \tau_1) \theta(\tau_2 - \tau_1) \theta(\tau_2 - \tau_1) \theta(\tau_2$$

$$T6 = \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_3 + a_4)(a_3 + a_4)a_4}$$

$$a_1 = \epsilon^{k_5 k_6}$$

$$a_2 = \epsilon^{k_7 k_8}_{k_1 k_5}$$

$$a_3 = \epsilon^{k_9}_{k_6 k_7 k_8}$$

$$a_4 = \epsilon^{k_9}_{k_6 k_7 k_8}$$

$$a_5 = \epsilon^{k_9}_{k_6 k_7 k_8}$$

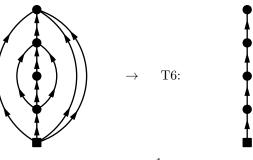
$$a_7 = \epsilon^{k_9}_{k_6 k_7 k_8}$$

$$a_8 = \epsilon^{k_9}_{k_6 k_7 k_8}$$

$$a_9 = \epsilon^{k_9}_{k_6 k_7 k_8}$$

Diagram 215:

$$PO4.215 = \lim_{\tau \to \infty} \frac{(-1)^4}{(2!)(3!)} \sum_{k_i} O_{k_1 k_2 k_3 k_4}^{40} \Omega_{k_5 k_6 k_7 k_1}^{31} \Omega_{k_8 k_5}^{13} \Omega_{k_9 k_8 k_6 k_7}^{13} \Omega_{k_9 k_2 k_3 k_4}^{04} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_2) \theta(\tau_4$$



$$T6 = \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_3 + a_4)(a_3 + a_4)a_4}$$

$$a_1 = \epsilon_{k_1}^{k_5 k_6 k_7}$$

$$a_2 = \epsilon_{k_5}^{k_8}$$

$$a_3 = \epsilon_{k_6 k_7 k_8}^{k_9}$$

$$a_4 = \epsilon$$

$$a_4 = \epsilon$$

$$a_4 = \epsilon$$

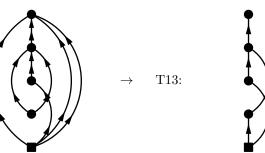
$$a_5 = \epsilon$$

$$a_6 = \epsilon$$

$$a_8 = \epsilon$$

Diagram 216:

$$PO4.216 = \lim_{\tau \to \infty} \frac{(-1)^4}{(2!)(3!)} \sum_{k_i} O_{k_1 k_2 k_3 k_4}^{40} \Omega_{k_5 k_6}^{20} \Omega_{k_7 k_1}^{11} \Omega_{k_8 k_7 k_5 k_6}^{13} \Omega_{k_8 k_2 k_3 k_4}^{04} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_3 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon^{k_5 k_6}} e^{-\tau_1 \epsilon^{k_5$$



$$T13 = \frac{1}{(a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_4)a_4} + \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_3 + a_4)(a_3 + a_4)a_4}$$
(446)

$$a_{1} = \epsilon^{k_{5}k_{6}}$$

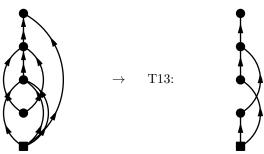
$$a_{2} = \epsilon^{k_{7}}_{k_{1}}$$

$$a_{3} = \epsilon^{k_{8}}_{k_{5}k_{6}k_{7}}$$

$$a_{4} = \epsilon_{k_{2}k_{3}k_{4}k_{8}}$$

Diagram 217:

$$PO4.217 = \lim_{\tau \to \infty} \frac{(-1)^4}{(2!)(3!)} \sum_{k_i} O_{k_1 k_2 k_3 k_4}^{40} \Omega_{k_5 k_6}^{20} \Omega_{k_7 k_1 k_2 k_3}^{13} \Omega_{k_8 k_7 k_5 k_6}^{13} \Omega_{k_8 k_4}^{02} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_3 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon^{k_5 k_6}} e^{-\tau_1 \epsilon^{k_5$$



$$T13 = \frac{1}{(a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_4)a_4} + \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_3 + a_4)(a_3 + a_4)a_4}$$
(448)

$$a_{1} = \epsilon^{k_{5}k_{6}}$$

$$a_{2} = \epsilon^{k_{7}}_{k_{1}k_{2}k_{3}}$$

$$a_{3} = \epsilon^{k_{8}}_{k_{5}k_{6}k_{7}}$$

$$a_{4} = \epsilon_{k_{4}k_{8}}$$

Diagram 218:

$$PO4.218 = \lim_{\tau \to \infty} \frac{-(-1)^4}{(2!)(3!)} \sum_{k_i} O_{k_1 k_2 k_3 k_4}^{40} \Omega_{k_5 k_1 k_2 k_3}^{13} \Omega_{k_6 k_4}^{11} \Omega_{k_7 k_8 k_6 k_5}^{22} \Omega_{k_7 k_8}^{02} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_3 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_{k_1 k_2 k_3}^{k_5} t_4} e^{-\tau_1 \epsilon_{k_1 k_2 k_3}^{k_5} t_4} e^{-\tau_1 \epsilon_{k_1 k_2 k_3}^{k_5} t_5} e^{-\tau_1 \epsilon_{k_1 k_2 k_3}^{k_5} t_5}$$



$$T13 = \frac{1}{(a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_4)a_4} + \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_3 + a_4)(a_3 + a_4)a_4}$$
(450)

$$a_{1} = \epsilon_{k_{1}k_{2}k_{3}}^{k_{5}}$$

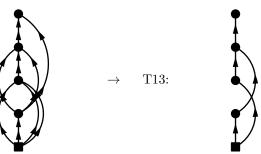
$$a_{2} = \epsilon_{k_{4}}^{k_{6}}$$

$$a_{3} = \epsilon_{k_{5}k_{6}}^{k_{7}k_{8}}$$

$$a_{4} = \epsilon_{k_{7}k_{9}}$$

Diagram 219:

$$PO4.219 = \lim_{\tau \to \infty} \frac{-(-1)^4}{(2!)(3!)} \sum_{k_i} O_{k_1 k_2 k_3 k_4}^{40} \Omega_{k_5 k_6 k_7 k_1}^{13} \Omega_{k_8 k_2 k_3 k_4}^{13} \Omega_{k_9 k_8 k_5 k_6}^{13} \Omega_{k_9 k_7}^{02} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_1) \theta(\tau_$$



$$T13 = \frac{1}{(a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_4)a_4} + \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_3 + a_4)(a_3 + a_4)a_4}$$

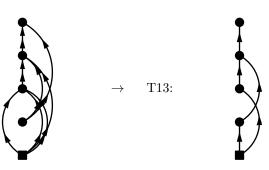
$$a_1 = \epsilon_{k_1}^{k_5 k_6 k_7}$$

$$(452)$$

$$a_{2} = \epsilon_{k_{2}k_{3}k_{4}}^{k_{8}}$$
 $a_{3} = \epsilon_{k_{5}k_{6}k_{8}}^{k_{9}}$
 $a_{4} = \epsilon_{k_{7}k_{9}}$

Diagram 220:

$$PO4.220 = \lim_{\tau \to \infty} \frac{-(-1)^4}{(3!)} \sum_{k_i} O_{k_1 k_2 k_3 k_4}^{40} \Omega_{k_5 k_6}^{20} \Omega_{k_7 k_1 k_2 k_3}^{13} \Omega_{k_8 k_7 k_5 k_4}^{13} \Omega_{k_8 k_6}^{02} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) d\tau_4 \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) d\tau_4 \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) d\tau_4 \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) d\tau_4 \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) d\tau_4 \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) d\tau_4 \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) d\tau_4 \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) d\tau_4 \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) d\tau_4 \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) d\tau_4 \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) d\tau_4 \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) d\tau_4 \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) d\tau_4 \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) d\tau_4 \theta(\tau_4 - \tau_3) d\tau_4 \theta(\tau_4 - \tau_4) d\tau_4 \theta(\tau_4 - \tau_4$$



$$T13 = \frac{1}{(a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_4)a_4} + \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_3 + a_4)(a_3 + a_4)a_4}$$
(454)

$$a_{1} = \epsilon^{k_{5}k_{6}}$$

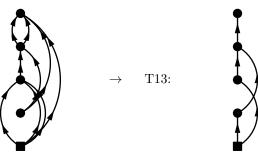
$$a_{2} = \epsilon^{k_{7}}_{k_{1}k_{2}k_{3}}$$

$$a_{3} = \epsilon^{k_{8}}_{k_{4}k_{5}k_{7}}$$

$$a_{4} = \epsilon_{k_{6}k_{8}}$$

Diagram 221:

$$\begin{aligned} \text{PO4.221} &= \lim_{\tau \to \infty} \frac{(-1)^4}{(2!)(3!)} \sum_{k_i} O_{k_1 k_2 k_3 k_4}^{40} \Omega_{k_5 k_6}^{20} \Omega_{k_7 k_1 k_2 k_3}^{13} \Omega_{k_8 k_9 k_7 k_5}^{22} \Omega_{k_8 k_9 k_6 k_4}^{04} \int_0^{\tau} \mathrm{d}\tau_1 \mathrm{d}\tau_2 \mathrm{d}\tau_3 \mathrm{d}\tau_4 \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_1)$$



$$T13 = \frac{1}{(a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_4)a_4} + \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_3 + a_4)(a_3 + a_4)a_4}$$
(456)

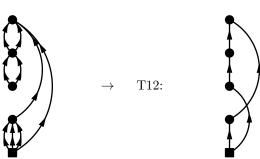
$$a_{1} = \epsilon^{k_{5}k_{6}}$$

$$a_{2} = \epsilon^{k_{7}}_{k_{1}k_{2}k_{3}}$$

$$a_{3} = \epsilon^{k_{8}k_{9}}_{k_{5}k_{7}}$$

$$a_{4} = \epsilon_{k_{4}k_{6}k_{8}k_{5}}$$

Diagram 222:



$$T12 = \frac{1}{(a_1 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_4)a_4} + \frac{1}{(a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_4)a_4} + \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_4)a_4} + \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_3 + a_4)a_4} + \frac{1}{(a_1 + a_3 + a_4)(a_3 + a_4)(a_3 + a_4)(a_3 + a_4)(a_3 + a_4)(a_3 + a_4)(a_3 + a_4)(a_4 + a_4)(a_4$$

$$a_{1} = \epsilon_{k_{1}k_{2}k_{3}}^{k_{5}}$$

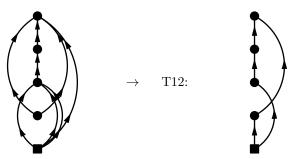
$$a_{2} = \epsilon_{k_{6}k_{7}}^{k_{6}k_{7}}$$

$$a_{3} = \epsilon_{k_{6}k_{7}}^{k_{8}k_{9}}$$

$$a_{4} = \epsilon_{k_{4}k_{5}k_{8}k_{9}}$$

Diagram 223:

$$PO4.223 = \lim_{\tau \to \infty} \frac{(-1)^4}{(2!)(3!)} \sum_{k_i} O_{k_1 k_2 k_3 k_4}^{40} \Omega_{k_5 k_6}^{20} \Omega_{k_7 k_1 k_2 k_3}^{13} \Omega_{k_8 k_7}^{11} \Omega_{k_8 k_5 k_6 k_4}^{04} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon^{k_5 k_6}} e^{-\tau_1 \epsilon^{k_5$$

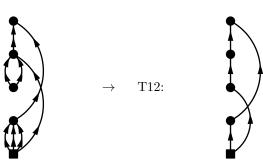


$$T12 = \frac{1}{(a_1 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_4)a_4} + \frac{1}{(a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_4)a_4} + \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_4)a_4} + \frac{1}{(a_1 + a_3 + a_4)(a_3 + a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_3 + a_4)(a_3 + a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_2 + a_2 + a_3 + a_4)(a_3$$

$$\begin{aligned} a_1 &= \epsilon^{k_5 k_6} \\ a_2 &= \epsilon^{k_7}_{k_1 k_2 k_3} \\ a_3 &= \epsilon^{k_8}_{k_7} \\ a_4 &= \epsilon_{k_4 k_5 k_6 k_8} \end{aligned}$$

Diagram 224:

$$PO4.224 = \lim_{\tau \to \infty} \frac{-(-1)^4}{(2!)(3!)} \sum_{k_i} O_{k_1 k_2 k_3 k_4}^{40} \Omega_{k_5 k_1 k_2 k_3}^{13} \Omega_{k_6 k_7}^{20} \Omega_{k_8 k_6 k_7 k_4}^{13} \Omega_{k_8 k_5}^{02} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_{k_1 k_2 k_3}^{k_5}} d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_{k_1 k_2 k_3}^{k_5}} d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_{k_1 k_2 k_3}^{k_5}} d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_{k_1 k_2 k_3}^{k_5}} d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_{k_1 k_2 k_3}^{k_5}} d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_{k_1 k_2 k_3}^{k_5}} d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_{k_1 k_2 k_3}^{k_5}} d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_{k_1 k_2 k_3}^{k_5}} d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_{k_1 k_2 k_3}^{k_5}} d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_{k_1 k_2 k_3}^{k_5}} d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_{k_1 k_2 k_3}^{k_5}} d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_{k_1 k_2 k_3}^{k_5}} d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_{k_1 k_2 k_3}^{k_5}} d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_{k_1 k_2 k_3}^{k_5}} d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_{k_1 k_2 k_3}^{k_5}} d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_{k_1 k_2 k_3}^{k_5}} d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_{k_1 k_2 k_3}^{k_5}} d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_{k_1 k_2 k_3}^{k_5}} d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_{k_1 k_2 k_3}^{k_5}} d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_{k_1 k_2 k_3}^{k_5}} d\tau_4 \theta(\tau_4 - \tau_4) \theta(\tau_4 -$$



$$T12 = \frac{1}{(a_1 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_4)a_4} + \frac{1}{(a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_4)a_4} + \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_2 + a_$$

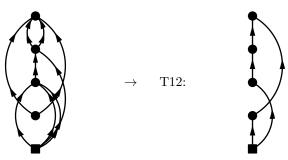
$$a_{1} = \epsilon_{k_{1}k_{2}k_{3}}^{k_{5}}$$

$$a_{2} = \epsilon_{k_{6}k_{7}}^{k_{6}k_{7}}$$

$$a_{3} = \epsilon_{k_{4}k_{6}k_{7}}^{k_{8}}$$

$$a_{4} = \epsilon_{k_{5}k_{8}}$$

Diagram 225:



$$T12 = \frac{1}{(a_1 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_4)a_4} + \frac{1}{(a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_4)a_4} + \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_4)(a_3 + a_4)(a_4 + a_1 + a_3 + a_4)(a_4 + a_4)(a_4$$

$$a_1 = \epsilon^{k_5 k_6}$$

$$a_2 = \epsilon^{k_7}_{k_1 k_2 k_3}$$

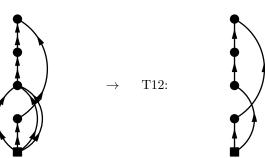
$$a_3 = \epsilon^{k_8 k_9}_{k_4 k_7}$$

$$a_4 = \epsilon_{k_5 k_6 k_8 k_9}$$

Diagram 226:

$$PO4.226 = \lim_{\tau \to \infty} \frac{-(-1)^4}{(3!)} \sum_{k_i} O_{k_1 k_2 k_3 k_4}^{40} \Omega_{k_5 k_1}^{11} \Omega_{k_6 k_2 k_3 k_4}^{13} \Omega_{k_7 k_6}^{12} \Omega_{k_7 k_5}^{22} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_{k_1}^{k_5}} e^{-\tau_2 \epsilon_{k_5}^{k_5}}$$

$$= \frac{-(-1)^4}{(3!)} \sum_{k_i} O_{k_1 k_2 k_3 k_4}^{40} \Omega_{k_5 k_1}^{11} \Omega_{k_6 k_2 k_3 k_4}^{13} \Omega_{k_7 k_6}^{13} \Omega_{k_7 k_5}^{22} \left[\frac{1}{\epsilon_{k_1 k_7}} \frac{1}{\epsilon_{k_1 k_2 k_3 k_4}} \epsilon_{k_5 k_7} + \frac{1}{\epsilon_{k_1 k_6}} \frac{1}{\epsilon_{k_1 k_2 k_3 k_4}} \epsilon_{k_6 k_5} \epsilon_{k_5 k_7} + \frac{1}{\epsilon_{k_1 k_5}} \frac{1}{\epsilon_{k_1$$



$$T12 = \frac{1}{(a_1 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_4)a_4} + \frac{1}{(a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_4)a_4} + \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_3 + a_4)(a_3 + a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_2)(a_3 + a_2)(a_3$$

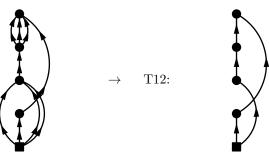
$$a_1 = \epsilon_{k_1}^{k_5}$$

$$a_2 = \epsilon_{k_2 k_3 k_4}^{k_6}$$

$$a_3 = \epsilon_{k_6}^{k_7}$$

$$a_4 = \epsilon_{k_5 k_7}$$

Diagram 227:



$$T12 = \frac{1}{(a_1 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_4)a_4} + \frac{1}{(a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_4)a_4} + \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_4)a_4} + \frac{1}{(a_1 + a_3 + a_4)(a_3 + a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_3 + a_4)(a_3 + a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_2 + a_2 + a_4)(a_3 + a_1$$

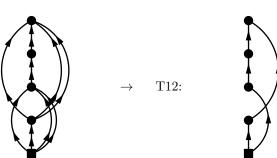
$$a_{1} = \epsilon_{k_{1}}^{k_{5}}$$

$$a_{2} = \epsilon_{k_{2}k_{3}k_{4}}^{k_{6}}$$

$$a_{3} = \epsilon_{k_{6}}^{k_{7}k_{8}k_{9}}$$

$$a_{4} = \epsilon_{k_{7}k_{7}k_{8}k}$$

Diagram 228:



$$T12 = \frac{1}{(a_1 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_4)a_4} + \frac{1}{(a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_4)a_4} + \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_4)(a_3 + a_4)(a_3 + a_4)(a_4 + a_4)(a_4$$

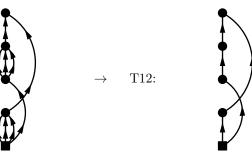
$$a_1 = \epsilon_{k_1}^{k_5 k_6 k_7}$$

$$a_2 = \epsilon_{k_2 k_3 k_4}^{k_8}$$

$$a_3 = \epsilon_{k_8}^{k_9}$$

$$a_4 = \epsilon_{k_5 k_6 k_7 k_9}$$

Diagram 229:



$$T12 = \frac{1}{(a_1 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_4)a_4} + \frac{1}{(a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_4)a_4} + \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_4)(a_3 + a_4)(a_4 + a_4)(a_4$$

$$a_{1} = \epsilon_{k_{1}k_{2}k_{3}}^{k_{5}}$$

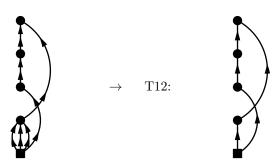
$$a_{2} = \epsilon_{k_{4}}^{k_{6}k_{7}k_{8}}$$

$$a_{3} = \epsilon_{k_{6}k_{7}k_{8}}^{k_{9}}$$

$$a_{4} = \epsilon_{k_{5}k_{9}}$$

Diagram 230:

$$PO4.230 = \lim_{\tau \to \infty} \frac{-(-1)^4}{(3!)} \sum_{k_i} O_{k_1 k_2 k_3 k_4}^{40} \Omega_{k_5 k_1 k_2 k_3}^{13} \Omega_{k_6 k_4}^{11} \Omega_{k_7 k_6}^{11} \Omega_{k_7 k_5}^{02} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_{k_1 k_2 k_3}^{k_5}} e^{-\tau_1 \epsilon_{k_1 k_2 k_3}^{k_5}} e^{-\tau_1 \epsilon_{k_1 k_2 k_3}^{k_5}} e^{-\tau_1 \epsilon_{k_1 k_2 k_3}^{k_5}} \frac{1}{(3!)} \sum_{k_i} O_{k_1 k_2 k_3 k_4}^{40} \Omega_{k_5 k_1 k_2 k_3}^{13} \Omega_{k_6 k_4}^{11} \Omega_{k_7 k_6}^{11} \Omega_{k_7 k_5}^{02} \left[\frac{1}{\epsilon_{k_1 k_2 k_3 k_4}} \frac{1}{\epsilon_{k_1 k_2 k_3 k_4}$$



$$T12 = \frac{1}{(a_1 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_4)a_4} + \frac{1}{(a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_4)a_4} + \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_4)a_4} + \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_3 + a_4)a_4} + \frac{1}{(a_1 + a_3 + a_4)(a_3 + a_4)(a_3 + a_4)(a_3 + a_4)(a_3 + a_4)(a_3 + a_4)(a_3 + a_4)(a_4 + a_4)(a_4$$

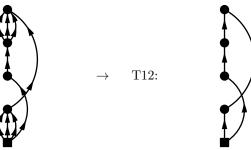
$$a_1 = \epsilon_{k_1 k_2 k_3}^{k_5}$$

$$a_2 = \epsilon_{k_4}^{k_6}$$

$$a_3 = \epsilon_{k_6}^{k_7}$$

$$a_4 = \epsilon_{k_5 k_7}$$

Diagram 231:



$$T12 = \frac{1}{(a_1 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_4)a_4} + \frac{1}{(a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_4)a_4} + \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_4)a_4} + \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_3 + a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_3 + a_4)(a_3 + a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_4)(a_3 + a_1 + a_3 + a_4)(a_3 + a_1 + a_4)(a_3 + a_1 + a_3 + a_4)(a_3 + a_1$$

$$a_{1} = \epsilon_{k_{1}k_{2}k_{3}}^{k_{5}}$$

$$a_{2} = \epsilon_{k_{4}}^{k_{6}}$$

$$a_{3} = \epsilon_{k_{6}}^{k_{7}k_{8}k_{9}}$$

$$a_{4} = \epsilon_{k_{5}k_{7}k_{5}k_{5}}$$

Diagram 232:

$$PO4.232 = \lim_{\tau \to \infty} \frac{-(-1)^4}{(2!)(3!)} \sum_{k_i} O_{k_1 k_2 k_3 k_4}^{40} \Omega_{k_5 k_6}^{20} \Omega_{k_5 k_1 k_2 k_3}^{04} \Omega_{k_7 k_8}^{20} \Omega_{k_7 k_8}^{04} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon^{k_5 k_6}} \epsilon^{-\tau_1 \epsilon^{k_5 k_6}} \Omega_{k_7 k_8 k_6 k_4}^{20} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon^{k_5 k_6}} \epsilon^{-\tau_1 \epsilon^{k_5 k_6}} \Omega_{k_7 k_8 k_6 k_4}^{20} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon^{k_5 k_6}} \epsilon^{-\tau_1 \epsilon^{k_5 k_6}} \Omega_{k_7 k_8 k_6 k_4}^{20} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon^{k_5 k_6}} \Omega_{k_7 k_8 k_6 k_4}^{20} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon^{k_5 k_6}} \Omega_{k_7 k_8 k_6 k_4}^{20} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon^{k_5 k_6}} \Omega_{k_7 k_8 k_6 k_4}^{20} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon^{k_5 k_6}} \Omega_{k_7 k_8 k_6 k_4}^{20} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon^{k_5 k_6}} \Omega_{k_7 k_8 k_6 k_4}^{20} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon^{k_5 k_6}} \Omega_{k_7 k_8 k_6 k_4}^{20} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_4$$

$$T9 = \frac{1}{(a_1 + a_2 + a_4)a_2(a_3 + a_1 + a_2 + a_4)a_4} + \frac{1}{(a_1 + a_2 + a_3 + a_4)a_2(a_3 + a_4)a_4}$$

$$a_1 = \epsilon^{k_5 k_6}$$

$$a_2 = \epsilon_{k_1 k_2 k_3 k_5}$$

$$a_3 = \epsilon^{k_7 k_8}$$

$$a_4 = \epsilon_{k_4 k_6 k_7 k_8}$$

$$a_4 = \epsilon_{k_4 k_6 k_7 k_8}$$

$$(478)$$

Diagram 233:

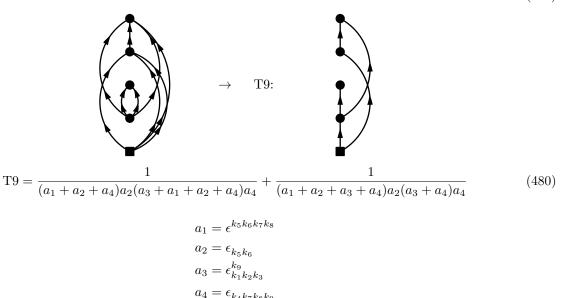


Diagram 234:

$$T9 = \frac{1}{(a_1 + a_2 + a_4)a_2(a_3 + a_1 + a_2 + a_4)a_4} + \frac{1}{(a_1 + a_2 + a_3 + a_4)a_2(a_3 + a_4)a_4}$$

$$a_1 = \epsilon_{k_5 k_6}^{k_5 k_6 k_7}$$

$$a_2 = \epsilon_{k_5 k_6}$$

$$a_3 = \epsilon_{k_2 k_3 k_4}^{k_8}$$

$$a_4 = \epsilon_{k_7 k_8}$$

$$a_4 = \epsilon_{k_7 k_8}$$

$$(482)$$

Diagram 235:

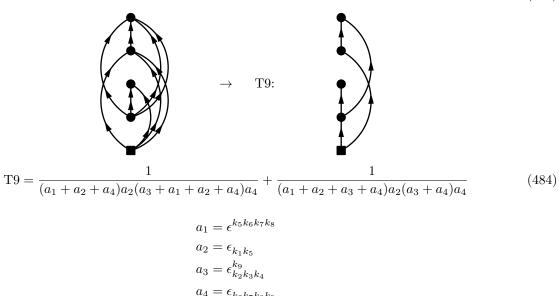


Diagram 236:

$$PO4.236 = \lim_{\tau \to \infty} \frac{(-1)^4}{(3!)} \sum_{k_i} O_{k_1 k_2 k_3 k_4}^{40} \Omega_{k_5 k_6}^{20} \Omega_{k_5 k_1}^{02} \Omega_{k_7 k_2 k_3 k_4}^{13} \Omega_{k_7 k_6}^{02} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon^{k_5 k_6}} e^{-\tau_2 \epsilon_k}$$

$$= \frac{(-1)^4}{(3!)} \sum_{k_i} O_{k_1 k_2 k_3 k_4}^{40} \Omega_{k_5 k_6}^{20} \Omega_{k_5 k_1}^{02} \Omega_{k_7 k_2 k_3 k_4}^{13} \Omega_{k_7 k_6}^{02} \left[\frac{1}{\epsilon_{k_1 k_7} \epsilon_{k_1 k_5} \epsilon_{k_1 k_2 k_3 k_4} \epsilon_{k_6 k_7}} + \frac{1}{\epsilon_{k_1 k_2 k_3 k_4} \epsilon_{k_1 k_5} \epsilon_{k_2 k_3 k_4 k_6} \epsilon_{k_6 k_7}} \right]$$

$$(A85)$$

$$T9 = \frac{1}{(a_1 + a_2 + a_4)a_2(a_3 + a_1 + a_2 + a_4)a_4} + \frac{1}{(a_1 + a_2 + a_3 + a_4)a_2(a_3 + a_4)a_4}$$

$$a_1 = \epsilon^{k_5 k_6}$$

$$a_2 = \epsilon_{k_1 k_5}$$

$$a_3 = \epsilon^{k_7}_{k_2 k_3 k_4}$$

$$a_4 = \epsilon_{k_6 k_7}$$

$$(486)$$

Diagram 237:

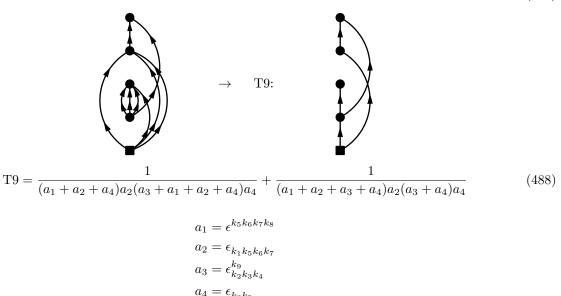


Diagram 238:

$$T9 = \frac{1}{(a_1 + a_2 + a_4)a_2(a_3 + a_1 + a_2 + a_4)a_4} + \frac{1}{(a_1 + a_2 + a_3 + a_4)a_2(a_3 + a_4)a_4}$$

$$a_1 = \epsilon^{k_5 k_6 k_7 k_8}$$

$$a_2 = \epsilon_{k_1 k_2 k_3 k_5}$$

$$a_3 = \epsilon^{k_9}_{k_4}$$

$$a_4 = \epsilon_{k_6 k_7 k_8 k_9}$$

$$(490)$$

Diagram 239:

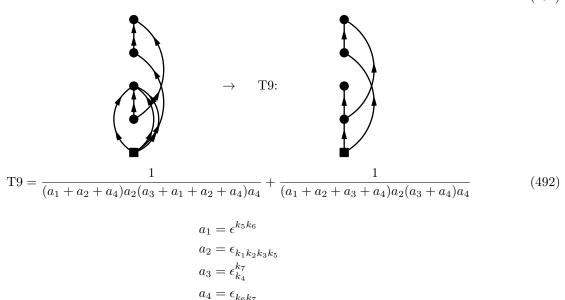


Diagram 240:

$$T9 = \frac{1}{(a_1 + a_2 + a_4)a_2(a_3 + a_1 + a_2 + a_4)a_4} + \frac{1}{(a_1 + a_2 + a_3 + a_4)a_2(a_3 + a_4)a_4}$$

$$a_1 = \epsilon^{k_5 k_6}$$

$$a_2 = \epsilon_{k_1 k_2 k_3 k_5}$$

$$a_3 = \epsilon^{k_7 k_8 k_9}_{k_4}$$

$$a_4 = \epsilon_{k_6 k_7 k_8 k_9}$$

$$a_4 = \epsilon_{k_6 k_7 k_8 k_9}$$

$$(494)$$

Diagram 241:

$$PO4.241 = \lim_{\tau \to \infty} \frac{(-1)^4}{(2!)^2(3!)} \sum_{k_i} O_{k_1 k_2 k_3 k_4}^{40} \Omega_{k_5 k_6 k_7 k_1}^{31} \Omega_{k_5 k_2 k_3 k_4}^{04} \Omega_{k_8 k_9}^{20} \Omega_{k_8 k_9 k_6 k_7}^{04} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_4} d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_4} d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_4} d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_4} d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_4} d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_4} d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_4} d\tau_4 \theta(\tau_2 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_4} d\tau_4 \theta(\tau_2 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_4} d\tau_4 \theta(\tau_2 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_4} d\tau_4 \theta(\tau_2 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_4} d\tau_4 \theta(\tau_2 - \tau_3) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_4} d\tau_4 \theta(\tau_2 - \tau_3) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_4} d\tau_4 \theta(\tau_2 - \tau_3) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_4} d\tau_4 \theta(\tau_2 - \tau_3) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_4} d\tau_4 \theta(\tau_2 - \tau_3) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_4} d\tau_4 \theta(\tau_2 - \tau_3) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_4} d\tau_4 \theta(\tau_2 - \tau_3) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_4} d\tau_4 \theta(\tau_2 - \tau_3) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_4} d\tau_4 \theta(\tau_2 - \tau_3) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_4} d\tau_4 \theta(\tau_2 - \tau_3) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_4} d\tau_4 \theta(\tau_2 - \tau_3) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_4} d\tau_4 \theta($$

$$T9 = \frac{1}{(a_1 + a_2 + a_4)a_2(a_3 + a_1 + a_2 + a_4)a_4} + \frac{1}{(a_1 + a_2 + a_3 + a_4)a_2(a_3 + a_4)a_4}$$

$$a_1 = \epsilon_{k_1}^{k_5 k_6 k_7}$$

$$a_2 = \epsilon_{k_2 k_3 k_4 k_5}$$

$$a_3 = \epsilon_{k_6 k_7 k_8 k_9}^{k_8 k_9}$$

$$a_4 = \epsilon_{k_6 k_7 k_8 k_9}$$

$$a_5 = \epsilon_{k_6 k_7 k_8 k_9}$$

$$a_4 = \epsilon_{k_6 k_7 k_8 k_9}$$

$$a_4 = \epsilon_{k_6 k_7 k_8 k_9}$$

$$a_5 = \epsilon_{k_6 k_7 k_8 k_9}$$

$$a_6 = \epsilon_{k_6 k_7 k_8 k_9}$$

$$a_7 = \epsilon_{k_6 k_7 k_8 k_9}$$

$$a_8 = \epsilon_{k_6 k_7 k_8 k_9}$$

$$a_8 = \epsilon_{k_6 k_7 k_8 k_9}$$

Diagram 242:

Diagram 243:

$$PO4.243 = \lim_{\tau \to \infty} \frac{(-1)^4}{(2!)(3!)} \sum_{k_i} O_{k_1 k_2 k_3 k_4}^{40} \Omega_{k_5 k_6 k_7 k_8}^{40} \Omega_{k_5 k_1 k_2 k_3}^{13} \Omega_{k_9 k_6 k_7 k_4}^{13} \Omega_{k_9 k_8}^{02} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_4$$

Diagram 244:

$$PO4.244 = \lim_{\tau \to \infty} \frac{-(-1)^4}{(2!)(3!)} \sum_{k_i} O_{k_1 k_2 k_3 k_4}^{40} \Omega_{k_5 k_6 k_7 k_8}^{40} \Omega_{k_5 k_1 k_2 k_3}^{40} \Omega_{k_5 k_6 k_7 k_8 k_4}^{10} \Omega_{k_5 k_5 k_5 k_8 k_4}^{40} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_1) \theta$$

Diagram 245:

$$T5 = \frac{1}{(a_1 + a_2 + a_3 + a_4)a_2(a_3 + a_4)a_4}$$

$$a_1 = \epsilon_{k_5 k_6 k_7}^{k_5 k_6 k_7}$$

$$a_2 = \epsilon_{k_5 k_6}$$

$$a_3 = \epsilon_{k_7}^{k_8}$$

$$a_4 = \epsilon_{k_2 k_3 k_4 k_8}$$

$$(504)$$

Diagram 246:

Diagram 247:

Diagram 248:

 $a_4 = \epsilon_{k_2 k_2 k_4 k_6}$

Diagram 249:

Diagram 250:

$$PO4.250 = \lim_{\tau \to \infty} \frac{-(-1)^4}{(3!)} \sum_{k_i} O_{k_1 k_2 k_3 k_4}^{40} \Omega_{k_5 k_6}^{20} \Omega_{k_5 k_1 k_2 k_3}^{04} \Omega_{k_7 k_6}^{11} \Omega_{k_7 k_4}^{02} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon^{k_5 k_6}} e^{-\tau_2}$$

$$= \frac{-(-1)^4}{(3!)} \sum_{k_i} \frac{O_{k_1 k_2 k_3 k_4}^{40} \Omega_{k_5 k_6}^{20} \Omega_{k_5 k_1 k_2 k_3}^{04} \Omega_{k_7 k_6}^{11} \Omega_{k_7 k_4}^{02}}{\epsilon_{k_1 k_2 k_3 k_4}} \epsilon_{k_1 k_2 k_3 k_5} \epsilon_{k_6 k_4} \epsilon_{k_4 k_7}$$

$$(513)$$

Diagram 251:

Diagram 252:

$$T5 = \frac{1}{(a_1 + a_2 + a_3 + a_4)a_2(a_3 + a_4)a_4}$$

$$a_1 = \epsilon^{k_5 k_6 k_7 k_8}$$

$$a_2 = \epsilon_{k_5 k_6}$$

$$a_3 = \epsilon^{k_9}_{k_1 k_7 k_8}$$

$$a_4 = \epsilon_{k_2 k_3 k_4 k_9}$$
(518)

Diagram 253:

$$PO4.253 = \lim_{\tau \to \infty} \frac{-(-1)^4}{(2!)(3!)} \sum_{k_i} O_{k_1 k_2 k_3 k_4}^{40} \Omega_{k_3 k_6}^{20} \Omega_{k_3 k_1 k_2 k_3}^{60} \Omega_{k_7 k_8 k_6 k_4}^{22} \Omega_{k_7 k_8}^{22} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon^{k_5 k_6} \epsilon^{-1} \epsilon^{k_5 k_6} \epsilon^{-1} \epsilon^{-1} \epsilon^{k_5 k_6} \epsilon^{-1} \epsilon^{-$$

Diagram 254:

Diagram 255:

 $a_4 = \epsilon_{k_5 k_6}$

Diagram 256:

$$\begin{aligned} \text{PO4.256} &= \lim_{\tau \to \infty} \frac{-(-1)^4}{2(2!)} \sum_{k_i} O_{k_1 k_2}^{20} \Omega_{k_3 k_4}^{20} \Omega_{k_5 k_6}^{22} \Omega_{k_6 k_2}^{02} \Omega_{k_6 k_2}^{02} \int_0^\tau \mathrm{d}\tau_1 \mathrm{d}\tau_2 \mathrm{d}\tau_3 \mathrm{d}\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_2) e^{-\tau_1 \epsilon^{k_3 k_4}} e^{-\tau_2 \epsilon^{k_3 k_4}_{k_3 k_4}} \\ &= \frac{-(-1)^4}{2(2!)} \sum_{k_i} \frac{O_{k_1 k_2}^{20} \Omega_{k_3 k_4}^{20} \Omega_{k_3 k_4}^{22} \Omega_{k_5 k_6 k_3 k_4}^{22} \Omega_{k_5 k_6}^{02}}{\epsilon_{k_1 k_2} \epsilon_{k_3 k_4 k_1 k_2} \epsilon_{k_1 k_5} \epsilon_{k_2 k_6}} \end{aligned}$$

$$\Rightarrow \quad \text{T7:}$$

$$\Rightarrow \quad \text{T7:}$$

$$\frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_3 + a_4)a_3 a_4}$$

$$a_1 = \epsilon^{k_3 k_4}$$

$$a_2 = \epsilon^{k_5 k_6}_{k_5 k_6}$$

$$a_3 = \epsilon_{k_1 k_5}$$

$$a_4 = \epsilon_{k_2 k_6}$$

$$a_4 = \epsilon_{k_3 k_6}$$

$$a_4 = \epsilon_{k_3 k_6}$$

$$a_4 = \epsilon_{k_3 k_6}$$

$$a_4 = \epsilon_{k_3 k_6}$$

Diagram 257:

$$PO4.257 = \lim_{\tau \to \infty} \frac{(-1)^4}{(2!)} \sum_{k_i} O_{k_1 k_2}^{20} \Omega_{k_3 k_1}^{11} \Omega_{k_4 k_5 k_6 k_3}^{31} \Omega_{k_4 k_2}^{02} \Omega_{k_5 k_6}^{02} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_2) e^{-\tau_1 \epsilon_{k_1}^{k_3}} e^{-\tau_2 \epsilon_{k_3}^{k_4 k_5 k_6}} e^{-\tau_2 \epsilon_{k_3}^{k_$$

$$77 = \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_3 + a_4)a_3a_4}$$

$$a_1 = \epsilon_{k_1}^{k_3}$$

$$a_2 = \epsilon_{k_2k_4}^{k_4k_5k_6}$$

$$a_3 = \epsilon_{k_2k_4}$$

$$a_4 = \epsilon_{k_5k_6}$$
(528)

Diagram 258:

$$PO4.258 = \lim_{\tau \to \infty} \frac{-(-1)^4}{2(2!)^2} \sum_{k_i} O_{k_1 k_2}^{20} \Omega_{k_3 k_4 k_5 k_1}^{31} \Omega_{k_6 k_7 k_8 k_2}^{31} \Omega_{k_6 k_7}^{02} \Omega_{k_6 k_3}^{02} \Omega_{k_7 k_8 k_4 k_5}^{04} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau$$

$$T10 = \frac{1}{(a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)a_3a_4} + \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_3 + a_4)a_3a_4}$$

$$a_1 = \epsilon_{k_1}^{k_3k_4k_5}$$

$$a_2 = \epsilon_{k_6k_7k_8}^{k_6k_7k_8}$$

$$a_3 = \epsilon_{k_3k_6}$$

$$a_4 = \epsilon_{k_4k_5k_7k_8}$$

$$a_4 = \epsilon_{k_4k_5k_7k_8}$$

$$a_4 = \epsilon_{k_4k_5k_7k_8}$$

$$a_5 = \epsilon_{k_5k_7k_8}$$

Diagram 259:

$$PO4.259 = \lim_{\tau \to \infty} \frac{-(-1)^4}{2(2!)^2} \sum_{k_i} O_{k_1 k_2}^{20} \Omega_{k_3 k_4}^{20} \Omega_{k_5 k_6 k_7 k_8}^{40} \Omega_{k_5 k_6 k_3 k_1}^{04} \Omega_{k_7 k_8 k_4 k_2}^{04} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_2)$$

$$T10 = \frac{1}{(a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)a_3a_4} + \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_3 + a_4)a_3a_4}$$

$$a_1 = \epsilon^{k_3k_4}$$

$$a_2 = \epsilon^{k_3k_6k_7k_8}$$

$$a_3 = \epsilon_{k_1k_3k_5k_6}$$

$$a_4 = \epsilon_{k_2k_4k_7k_8}$$

$$(532)$$

Diagram 260:

$$PO4.260 = \lim_{\tau \to \infty} \frac{-(-1)^4}{(2!)} \sum_{k_i} O_{k_1 k_2}^{20} \Omega_{k_3 k_4 k_5 k_1}^{31} \Omega_{k_6 k_7}^{20} \Omega_{k_6 k_3}^{02} \Omega_{k_7 k_4 k_5 k_2}^{04} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_2) e^{-\tau_1} d\tau_2 d\tau_3 d\tau_4 \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_2) e^{-\tau_1} d\tau_2 d\tau_3 d\tau_4 \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_2) e^{-\tau_1} d\tau_2 d\tau_3 d\tau_4 \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_$$

$$T10 = \frac{1}{(a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)a_3a_4} + \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_3 + a_4)a_3a_4}$$

$$a_1 = \epsilon_{k_1}^{k_3 k_4 k_5}$$

$$a_2 = \epsilon^{k_6 k_7}$$

$$a_3 = \epsilon_{k_3 k_6}$$

$$a_4 = \epsilon_{k_2 k_4 k_5 k_7}$$

$$(534)$$

Diagram 261:

$$T7 = \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_3 + a_4)a_3a_4}$$

$$a_1 = \epsilon_{k_1}^{k_3 k_4 k_5}$$

$$a_2 = \epsilon_{k_3}^{k_6 k_7 k_8}$$

$$a_3 = \epsilon_{k_2 k_4 k_6 k_7}$$

$$a_4 = \epsilon_{k_5 k_8}$$
(536)

Diagram 262:

$$PO4.262 = \lim_{\tau \to \infty} \frac{-(-1)^4}{(2!)} \sum_{k_i} O_{k_1 k_2}^{20} \Omega_{k_3 k_4 k_5 k_6}^{40} \Omega_{k_7 k_8 k_3 k_1}^{22} \Omega_{k_7 k_4 k_5 k_2}^{40} \Omega_{k_8 k_6}^{02} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_3 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_3 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_3 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_3 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_3 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_3 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_3 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_3 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_3 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_3 - \tau_1) \theta(\tau_1) \theta(\tau_2 - \tau_1) \theta(\tau_1) \theta(\tau_2 - \tau_1) \theta(\tau_1) \theta(\tau_2 - \tau_1) \theta(\tau_2 - \tau_1)$$

Diagram 263:

$$PO4.263 = \lim_{\tau \to \infty} \frac{-(-1)^4}{2} \sum_{k_i} O_{k_1 k_2}^{20} \Omega_{k_3 k_4 k_5 k_1}^{31} \Omega_{k_6 k_7 k_3 k_2}^{22} \Omega_{k_6 k_4}^{02} \Omega_{k_7 k_5}^{02} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_5 - \tau_2) \theta(\tau_5 - \tau_1) \theta(\tau_5 - \tau_1) \theta(\tau_5 - \tau_1) \theta(\tau_5 - \tau_2) \theta(\tau_5 - \tau_1) \theta$$

Diagram 264:

$$PO4.264 = \lim_{\tau \to \infty} -(-1)^4 \sum_{k_i} O_{k_1 k_2}^{20} \Omega_{k_3 k_4}^{20} \Omega_{k_5 k_6}^{22} \Omega_{k_5 k_4}^{02} \Omega_{k_6 k_4}^{02} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_2) e^{-\tau_1 \epsilon^{k_3 k_4}}$$

$$= -(-1)^4 \sum_{k_i} \frac{O_{k_1 k_2}^{20} \Omega_{k_5 k_4}^{22} \Omega_{k_5 k_4}^{22} \Omega_{k_5 k_4}^{02} \Omega_{k_5 k_4}^{02}}{\epsilon_{k_1 k_2} \epsilon_{k_1 k_3 k_2 k_4} \epsilon_{k_2 k_5} \epsilon_{k_4 k_6}}$$

$$\to T7:$$

$$T7 = \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_3 + a_4)a_3 a_4}$$

$$a_1 = \epsilon^{k_3 k_4}$$

$$a_2 = \epsilon^{k_3 k_6}_{k_1 k_3}$$

$$a_3 = \epsilon_{k_2 k_5}$$

$$a_4 = \epsilon_{k_1 k_6}$$

$$a_4 = \epsilon_{k_1 k_6}$$

$$a_4 = \epsilon_{k_1 k_6}$$

$$a_4 = \epsilon_{k_1 k_6}$$

Diagram 265:

$$PO4.265 = \lim_{\tau \to \infty} \frac{-(-1)^4}{(3!)} \sum_{k_i} O_{k_1 k_2}^{20} \Omega_{k_3 k_4 k_5 k_6}^{40} \Omega_{k_7 k_8 k_3 k_1}^{22} \Omega_{k_7 k_8 k_3 k_1}^{60} \Omega_{k_7 k_2}^{20} \Omega_{k_8 k_4 k_5 k_6}^{60} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_2) \theta(\tau_$$

Diagram 266:

Diagram 267:

$$PO4.267 = \lim_{\tau \to \infty} \frac{(-1)^4}{(2!)^2} \sum_{k_i} O_{k_1 k_2}^{20} \Omega_{k_3 k_4 k_5 k_1}^{31} \Omega_{k_6 k_7 k_8 k_3}^{31} \Omega_{k_6 k_2}^{02} \Omega_{k_7 k_8 k_4 k_5}^{04} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_2) e$$

$$= \frac{(-1)^4}{(2!)^2} \sum_{k_i} \frac{O_{k_1 k_2}^{20} \Omega_{k_3 k_4 k_5 k_1}^{31} \Omega_{k_6 k_7 k_8 k_3}^{31} \Omega_{k_6 k_2}^{02} \Omega_{k_7 k_8 k_4 k_5}^{04}}{\epsilon_{k_1 k_2}}$$

$$\rightarrow T7:$$

$$T7 = \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_3 + a_4)a_3 a_4}$$

$$a_1 = \epsilon_{k_3}^{k_3 k_4 k_5}$$

$$a_2 = \epsilon_{k_8}^{k_6 k_7 k_8}$$

$$a_2 = \epsilon_{k_8}^{k_6 k_7 k_8}$$

$$(548)$$

 $a_3 = \epsilon_{k_2 k_6}$ $a_4 = \epsilon_{k_4 k_5 k_7 k_8}$

Diagram 268:

$$PO4.268 = \lim_{\tau \to \infty} \frac{-(-1)^4}{(2!)^2} \sum_{k_i} O_{k_1 k_2}^{20} \Omega_{k_3 k_4 k_5 k_6}^{40} \Omega_{k_7 k_8 k_3 k_4}^{22} \Omega_{k_7 k_1}^{04} \Omega_{k_8 k_5 k_6 k_2}^{04} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_2) \theta$$

$$T7 = \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_3 + a_4)a_3a_4}$$

$$a_1 = \epsilon^{k_3 k_4 k_5 k_6}$$

$$a_2 = \epsilon^{k_7 k_8}_{k_3 k_4}$$

$$a_3 = \epsilon_{k_1 k_7}$$

$$a_4 = \epsilon_{k_2 k_5 k_6 k_8}$$
(550)

Diagram 269:

Diagram 270:

$$PO4.270 = \lim_{\tau \to \infty} \frac{(-1)^4}{(2!)^2} \sum_{k_i} O_{k_1 k_2}^{20} \Omega_{k_3 k_4 k_5 k_1}^{31} \Omega_{k_6 k_7 k_8 k_3}^{31} \Omega_{k_6 k_7}^{02} \Omega_{k_8 k_4 k_5 k_2}^{02} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_2) e^{-\frac{(-1)^4}{(2!)^2}} \sum_{k_i} \frac{O_{k_1 k_2}^{20} \Omega_{k_3 k_4 k_5 k_1}^{31} \Omega_{k_6 k_7 k_8 k_3}^{31} \Omega_{k_6 k_7}^{02} \Omega_{k_8 k_4 k_5 k_2}^{04}}{\epsilon_{k_1 k_2} \epsilon_{k_3 k_2 k_4 k_5} \epsilon_{k_6 k_7} \epsilon_{k_2 k_4 k_5 k_8}}$$

$$T7 = \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_3 + a_4)a_3 a_4}$$

$$a_1 = \epsilon_{k_1}^{k_3 k_4 k_5}$$

$$a_2 = \epsilon_{k_5}^{k_6 k_7 k_8}$$

$$a_3 = \epsilon_{k_6 k_7}$$

$$a_4 = \epsilon_{k_2 k_4 k_5 k_8}$$

$$a_3 = \epsilon_{k_6 k_7}$$

$$a_4 = \epsilon_{k_2 k_4 k_5 k_8}$$

Diagram 271:

$$PO4.271 = \lim_{\tau \to \infty} \frac{-(-1)^4}{2(2!)^2} \sum_{k_i} O_{k_1 k_2}^{20} \Omega_{k_3 k_4 k_5 k_6}^{40} \Omega_{k_7 k_3 k_4 k_1}^{13} \Omega_{k_8 k_5 k_6 k_2}^{13} \Omega_{k_8 k_7}^{02} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) \theta(\tau_4 - \tau_4) \theta(\tau_4 - \tau_4)$$



$$T11 = \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_4)(a_3 + a_2 + a_4)a_4} + \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_3 + a_4)(a_3 + a_4)a_4}$$
 (556)
$$a_1 = \epsilon^{k_3 k_4 k_5 k_6}$$

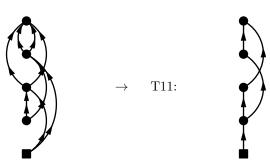
$$a_1 = \epsilon$$

$$a_2 = \epsilon_{k_1 k_3 k_4}^{k_7}$$

$$a_3 = \epsilon_{k_2 k_5 k_6}^{k_8}$$

Diagram 272:

$$PO4.272 = \lim_{\tau \to \infty} \frac{-(-1)^4}{2(2!)^2} \sum_{k_i} O_{k_1 k_2}^{20} \Omega_{k_3 k_4}^{20} \Omega_{k_5 k_6 k_3 k_1}^{22} \Omega_{k_7 k_8 k_4 k_2}^{22} \Omega_{k_7 k_8 k_5 k_6}^{04} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) \theta(\tau_4 - \tau_3) \theta(\tau_4 - \tau_4) \theta(\tau_4 - \tau_4)$$



$$T11 = \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_4)(a_3 + a_2 + a_4)a_4} + \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_3 + a_4)(a_3 + a_4)a_4}$$
 (558)

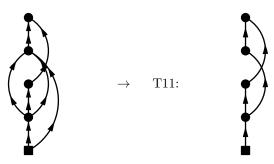
$$a_1 = \epsilon^{k_3 k_4}$$

$$a_2 = \epsilon^{k_5 k_6}_{k_1 k_3}$$

$$a_3 = \epsilon^{k_7 k_8}_{k_2 k_4}$$

$$a_4 = \epsilon \dots$$

Diagram 273:



$$T11 = \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_4)(a_3 + a_2 + a_4)a_4} + \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_3 + a_4)(a_3 + a_4)a_4}$$
 (560)

$$a_1 = \epsilon_{k_1}^{k_3 k_4 k_5}$$

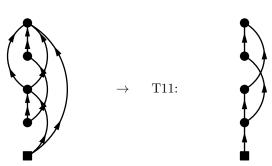
$$a_1 = \epsilon_{k_6}^{k_6}$$

$$a_2 = \epsilon_{k_3}^{\kappa_6}$$

$$a_3 = \epsilon_{k_2 k_4 k_5}^{k_3}$$

$$a_4 = \epsilon_{k_6 k_7}$$

Diagram 274:



$$T11 = \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_4)(a_3 + a_2 + a_4)a_4} + \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_3 + a_4)(a_3 + a_4)a_4}$$
 (562)

$$a_1 = \epsilon^{k_3 k_4}$$

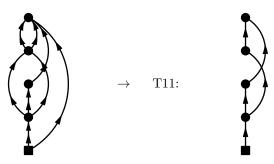
$$a_2 = \epsilon_{k_1 k_3}^{k_5 k_6}$$

$$a_3 = \epsilon_{k_4}^{k_7}$$

$$a_3 = \epsilon_k^{k_7}$$

$$a_4 = \epsilon_{k_2 k_5 k_6 k_7}$$

Diagram 275:



$$T11 = \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_4)(a_3 + a_2 + a_4)a_4} + \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_3 + a_4)(a_3 + a_4)a_4}$$
 (564)

$$a_1 = \epsilon_{k_1}^{k_3 k_4 k_5}$$

$$a_2 = \epsilon_{k_3}^{k_6}$$

$$a_3 = \epsilon_{k_4 k_5}^{k_7 k_8}$$

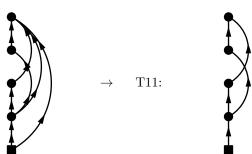
$$a_2 = \epsilon_{k_3}^{k_6}$$

$$a_3 = \epsilon_{k_4 k_5}^{k_7 k_8}$$

$$a_4 = \epsilon_{k_2 k_6 k_7 k_8}$$

Diagram 276:

$$PO4.276 = \lim_{\tau \to \infty} \frac{-(-1)^4}{2} \sum_{k_i} O_{k_1 k_2}^{20} \Omega_{k_3 k_4 k_5 k_1}^{31} \Omega_{k_6 k_3}^{11} \Omega_{k_7 k_4}^{11} \Omega_{k_7 k_6 k_5 k_2}^{00} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_2) \theta$$



$$T11 = \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_4)(a_3 + a_2 + a_4)a_4} + \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_3 + a_4)(a_3 + a_4)a_4}$$
 (566)

$$a_{1} = \epsilon_{k_{1}}^{k_{3}k_{4}k_{5}}$$

$$a_{2} = \epsilon_{k_{3}}^{k_{6}}$$

$$a_{3} = \epsilon_{k_{4}}^{k_{7}}$$

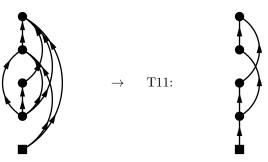
$$a_2 = \epsilon_{k_3}^{k_6}$$

$$a_3 = \epsilon_{k_4}^{k_7}$$

$$a_4 = \epsilon_{k_2 k_5 k_6 k_7}$$

Diagram 277:

$$PO4.277 = \lim_{\tau \to \infty} \frac{(-1)^4}{(2!)} \sum_{k_i} O_{k_1 k_2}^{20} \Omega_{k_3 k_4 k_5 k_6}^{40} \Omega_{k_7 k_3}^{11} \Omega_{k_8 k_4 k_5 k_1}^{13} \Omega_{k_8 k_7 k_6 k_2}^{60} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_$$



$$T11 = \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_4)(a_3 + a_2 + a_4)a_4} + \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_3 + a_4)(a_3 + a_4)a_4}$$
 (568)

$$a_1 = \epsilon^{k_3 k_4 k_5 k_6}$$

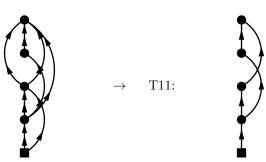
$$a_2 = \epsilon_{k_3}^{k_7}$$

$$a_3 = \epsilon_{k_1 k_4 k_5}^{k_8}$$

$$a_4 = \epsilon_{k_2 k_6 k_7 k_8}$$

Diagram 278:

$$PO4.278 = \lim_{\tau \to \infty} \frac{(-1)^4}{(2!)} \sum_{k_i} O_{k_1 k_2}^{20} \Omega_{k_3 k_4 k_5 k_1}^{31} \Omega_{k_6 k_7 k_3 k_2}^{22} \Omega_{k_8 k_4}^{11} \Omega_{k_8 k_6 k_7 k_5}^{04} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_$$



$$T11 = \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_4)(a_3 + a_2 + a_4)a_4} + \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_3 + a_4)(a_3 + a_4)a_4}$$
(570)

$$a_1 = \epsilon_1^{k_3 k_4 k_5}$$

$$a_2 = \epsilon_{k_2 k_3}^{k_6 k_7}$$

$$a_{1} = \epsilon_{k_{1}}^{k_{3}k_{4}k_{5}}$$

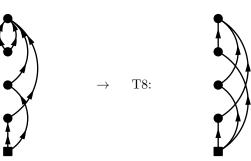
$$a_{2} = \epsilon_{k_{2}k_{3}}^{k_{6}k_{7}}$$

$$a_{3} = \epsilon_{k_{4}}^{k_{8}}$$

$$a_4 = \epsilon_{k_5 k_6 k_7 k_8}$$

Diagram 279:

$$PO4.279 = \lim_{\tau \to \infty} \frac{-(-1)^4}{2(2!)} \sum_{k_i} O_{k_1 k_2}^{20} \Omega_{k_3 k_1}^{11} \Omega_{k_4 k_2}^{11} \Omega_{k_5 k_6}^{20} \Omega_{k_5 k_6 k_4 k_3}^{04} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_{k_1}^{k_3}} e^{-\tau_2 \epsilon_{k_2}^{k_4}} e^{-\tau_2 \epsilon_{k_2}^{k_4}$$



$$T8 = \frac{1}{(a_1 + a_2 + a_4)(a_2 + a_4)(a_3 + a_1 + a_2 + a_4)a_4} + \frac{1}{(a_1 + a_4)(a_2 + a_1 + a_4)(a_3 + a_1 + a_2 + a_4)a_4} + \frac{1}{(a_1 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_2 + a_4)a_4} + \frac{1}{(a_1 + a_4)(a_2 + a_1 + a_4)(a_3 + a_1 + a_2 + a_4)a_4} + \frac{1}{(a_1 + a_4)(a_2 + a_1 + a_4)(a_3 + a_1 + a_2 + a_4)a_4} + \frac{1}{(a_1 + a_4)(a_2 + a_1 + a_4)(a_3 + a_1 + a_2 + a_4)a_4} + \frac{1}{(a_1 + a_4)(a_2 + a_1 + a_4)(a_3 + a_1 + a_2 + a_4)a_4} + \frac{1}{(a_1 + a_4)(a_2 + a_1 + a_4)(a_3 + a_1 + a_2 + a_4)a_4} + \frac{1}{(a_1 + a_4)(a_2 + a_1 + a_4)(a_3 + a_1 + a_2 + a_4)a_4} + \frac{1}{(a_1 + a_4)(a_2 + a_1 + a_4)(a_3 + a_1 + a_2 + a_4)a_4} + \frac{1}{(a_1 + a_4)(a_2 + a_1 + a_4)(a_3 + a_1 + a_2 + a_4)a_4} + \frac{1}{(a_1 + a_4)(a_2 + a_1 + a_4)(a_3 + a_1 + a_2 + a_4)a_4} + \frac{1}{(a_1 + a_4)(a_2 + a_1 + a_4)(a_3 + a_1 + a_2 + a_4)a_4} + \frac{1}{(a_1 + a_4)(a_2 + a_1 + a_4)(a_3 + a_1 + a_2 + a_4)a_4} + \frac{1}{(a_1 + a_4)(a_2 + a_1 + a_4)(a_3 + a_1 + a_2 + a_4)a_4} + \frac{1}{(a_1 + a_4)(a_2 + a_1 + a_4)(a_3 + a_1 + a_2 + a_4)a_4} + \frac{1}{(a_1 + a_4)(a_2 + a_1 + a_4)(a_3 + a_1 + a_2 + a_4)a_4} + \frac{1}{(a_1 + a_4)(a_2 + a_1 + a_2 + a_4)a_4} + \frac{1}{(a_1 + a_4)(a_2 + a_1 + a_4)(a_3 + a_1 + a_2 + a_4)a_4} + \frac{1}{(a_1 + a_4)(a_2 + a_1 + a_4)(a_3 + a_1 + a_2 + a_4)a_4} + \frac{1}{(a_1 + a_4)(a_2 + a_1 + a_4)(a_3 + a_1 + a_4)(a_3 + a_1 + a_4)(a_4 + a$$

$$a_{1} = \epsilon_{k_{1}}^{k_{3}}$$

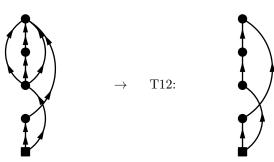
$$a_{2} = \epsilon_{k_{2}}^{k_{4}}$$

$$a_{3} = \epsilon_{k_{3}k_{4}k_{5}k_{6}}^{k_{5}k_{6}}$$

$$a_{4} = \epsilon_{k_{3}k_{4}k_{5}k_{6}}$$

Diagram 280:

$$PO4.280 = \lim_{\tau \to \infty} \frac{-(-1)^4}{(2!)} \sum_{k_i} O_{k_1 k_2}^{20} \Omega_{k_3 k_1}^{11} \Omega_{k_4 k_5 k_6 k_2}^{31} \Omega_{k_7 k_4}^{11} \Omega_{k_7 k_5 k_6 k_3}^{04} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_4} d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_4} d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_4} d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_4} d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_4} d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_4} d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_4} d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_4} d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_3) \theta(\tau_4 - \tau_3) \theta(\tau_4 - \tau_3) e^{-\tau_4} d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_3) \theta($$



$$T12 = \frac{1}{(a_1 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_4)a_4} + \frac{1}{(a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_4)a_4} + \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_4)(a_3 + a_4)(a_4 + a_4)(a_4$$

$$a_{1} = \epsilon_{k_{1}}^{k_{3}}$$

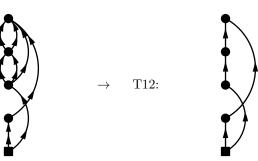
$$a_{2} = \epsilon_{k_{2}}^{k_{4}k_{5}k_{6}}$$

$$a_{3} = \epsilon_{k_{4}}^{k_{7}}$$

$$a_{4} = \epsilon_{k_{3}k_{5}k_{6}k_{7}}$$

Diagram 281:

$$PO4.281 = \lim_{\tau \to \infty} \frac{-(-1)^4}{(2!)^2} \sum_{k_i} O_{k_1 k_2}^{20} \Omega_{k_3 k_1}^{11} \Omega_{k_4 k_5 k_6 k_2}^{31} \Omega_{k_7 k_8 k_4 k_5}^{22} \Omega_{k_7 k_8 k_4 k_5}^{04} \Omega_{k_7 k_8 k_6 k_3}^{04} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) \theta(\tau_4 - \tau_3) \theta(\tau_4 - \tau_3) \theta(\tau_4 - \tau_4) \theta($$



$$T12 = \frac{1}{(a_1 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_4)a_4} + \frac{1}{(a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_4)a_4} + \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_4)(a_3 + a_4)(a_4 + a_1 + a_3 + a_4)(a_4 + a_4 + a_4)(a_4 +$$

$$a_{1} = \epsilon_{k_{1}}^{k_{3}}$$

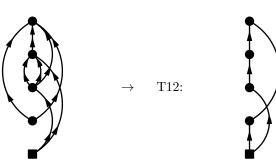
$$a_{2} = \epsilon_{k_{2}}^{k_{4}k_{5}k_{6}}$$

$$a_{3} = \epsilon_{k_{4}k_{5}}^{k_{7}k_{8}}$$

$$a_{4} = \epsilon_{k_{5}k_{5}k_{7}k_{7}}$$

Diagram 282:

$$PO4.282 = \lim_{\tau \to \infty} \frac{-(-1)^4}{(2!)^2} \sum_{k_i} O_{k_1 k_2}^{20} \Omega_{k_3 k_4}^{20} \Omega_{k_5 k_6 k_7 k_1}^{31} \Omega_{k_8 k_5 k_6 k_2}^{13} \Omega_{k_8 k_7 k_3 k_4}^{04} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) \theta(\tau_4 - \tau_3) \theta(\tau_4 - \tau_4) \theta(\tau_5 - \tau_4) \theta(\tau_5 - \tau_5) \theta$$

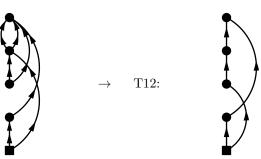


$$T12 = \frac{1}{(a_1 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_4)a_4} + \frac{1}{(a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_4)a_4} + \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_4)a_4} + \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_3 + a_4)a_4} + \frac{1}{(a_1 + a_3 + a_4)(a_3 + a_4)a_4} + \frac{1}{(a_1 + a_3 + a_4)(a_3 + a_4)(a_3 + a_4)(a_3 + a_4)(a_3 + a_4)(a_4 + a$$

$$\begin{aligned} a_1 &= \epsilon^{k_3 k_4} \\ a_2 &= \epsilon^{k_5 k_6 k_7}_{k_1} \\ a_3 &= \epsilon^{k_8}_{k_2 k_5 k_6} \\ a_4 &= \epsilon_{k_3 k_4 k_7 k_8} \end{aligned}$$

Diagram 283:

$$PO4.283 = \lim_{\tau \to \infty} \frac{(-1)^4}{(2!)} \sum_{k_i} O_{k_1 k_2}^{20} \Omega_{k_3 k_1}^{11} \Omega_{k_4 k_5}^{20} \Omega_{k_6 k_7 k_4 k_2}^{22} \Omega_{k_6 k_7 k_5 k_3}^{04} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_2} d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_2} d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_2} d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_2} d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_2} d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_2} d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_2} d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_2} d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_2} d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_2} d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_2} d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_2} d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_2} d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_2} d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_2} d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_2} d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_2} d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_2} d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_2} d\tau_4 \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_2} d\tau_4 \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_2} d\tau_4 \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_3} d\tau_4 \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_4} d\tau_4 \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_3} d\tau_4 \theta(\tau_4 - \tau_3) e^{-\tau_1$$



$$T12 = \frac{1}{(a_1 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_4)a_4} + \frac{1}{(a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_4)a_4} + \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_2)(a_3 + a_1 + a_3 + a_4)(a_3 + a_1 + a_3 + a_4)(a_3 + a_1 + a_2)(a_3 + a_1 + a_3 + a_4)(a_3 +$$

$$a_1 = \epsilon_{k_1}^{k_3}$$

$$a_2 = \epsilon_{k_4 k_5}^{k_4 k_5}$$

$$a_3 = \epsilon_{k_2 k_4}^{k_6 k_7}$$

$$a_4 = \epsilon_{k_3 k_5 k_6 k_7}$$

$$a_4 = \epsilon_{k_3 k_5 k_6 k_7}$$

Diagram 284:

$$PO4.284 = \lim_{\tau \to \infty} \frac{-(-1)^4}{(2!)^2} \sum_{k_i} O_{k_1 k_2}^{20} \Omega_{k_3 k_1}^{11} \Omega_{k_4 k_5 k_6 k_7}^{40} \Omega_{k_8 k_4 k_5 k_2}^{13} \Omega_{k_8 k_6 k_7 k_3}^{04} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) \theta(\tau_4 - \tau_3) \theta(\tau_4 - \tau_4) \theta$$





$$T12 = \frac{1}{(a_1 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_4)a_4} + \frac{1}{(a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_4)a_4} + \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_2 + a_2)(a_3$$

$$a_1 = \epsilon_{k_1}^{k_3}$$
$$a_2 = \epsilon^{k_4 k_5 k_6 k_7}$$

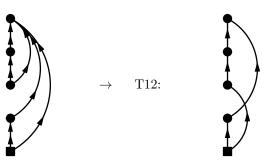
$$a_2 = \epsilon^{k_4 k_5 k_6 k_7}$$

$$a_3 = \epsilon_{k_2 k_4 k_5}^{k_8}$$

$$a_4 = \epsilon_{k_3 k_6 k_7 k_8}$$

Diagram 285:

$$PO4.285 = \lim_{\tau \to \infty} (-1)^4 \sum_{k_i} O_{k_1 k_2}^{20} \Omega_{k_3 k_1}^{11} \Omega_{k_4 k_5}^{20} \Omega_{k_6 k_4}^{11} \Omega_{k_6 k_5 k_3 k_2}^{04} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_{k_1}^{k_3}} e^{-\tau_2 \epsilon_{k_1}^{k_3}} e^{-\tau_3 \epsilon_{k_1}^{k_4}} e^{-\tau_3 \epsilon_{k_1}^{k_$$



$$T12 = \frac{1}{(a_1 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_4)a_4} + \frac{1}{(a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_4)a_4} + \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_4)a_4} + \frac{1}{(a_1 + a_3 + a_4)(a_3 + a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_3 + a_4)(a_3 + a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_2)(a_3 + a_2)(a_3 + a_1 + a_2)(a_3 + a_2)(a_3 +$$

$$a_1 = \epsilon_{k_1}^{k_3}$$

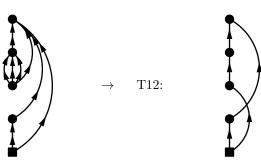
$$a_2 = \epsilon^{k_4 k_5}$$

$$a_3 = \epsilon_{k_4}^{k_6}$$

$$a_4 = \epsilon_{k_2 k_3 k_5 k_6}$$

Diagram 286:

$$PO4.286 = \lim_{\tau \to \infty} \frac{(-1)^4}{(3!)} \sum_{k_i} O_{k_1 k_2}^{20} \Omega_{k_3 k_1}^{11} \Omega_{k_4 k_5 k_6 k_7}^{40} \Omega_{k_8 k_4 k_5 k_6}^{13} \Omega_{k_8 k_7 k_3 k_2}^{04} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_2} d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_4} d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_4} d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_4} d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_4} d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_4} d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_4} d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_4} d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_4} d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_4} d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_4} d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_4} d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_4} d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_4} d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_4} d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_4} d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_4} d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_4} d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_4} d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_4} d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_4} d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_4} d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_4} d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_4} d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_4} d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_4} d\tau_4 \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_4} d\tau_4 \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) \theta(\tau_4 - \tau_3) e^{-\tau_4} d\tau_4 \theta(\tau_4 - \tau_4) \theta($$



$$T12 = \frac{1}{(a_1 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_4)a_4} + \frac{1}{(a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_4)a_4} + \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_4)a_4} + \frac{1}{(a_1 + a_3 + a_4)(a_3 + a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_2)(a_3 + a_1$$

$$\epsilon_1 = \epsilon_{k_1}^{k_3}$$

$$a_1 = \epsilon_{k_1}^{k_3}$$

$$a_2 = \epsilon^{k_4 k_5 k_6 k_7}$$

$$a_3 = \epsilon_{k_4 k_5 k_6}^{k_8}$$

$$a_4 = \epsilon_{k_2 k_3 k_7 k_8}$$

Diagram 287:

$$PO4.287 = \lim_{\tau \to \infty} \frac{(-1)^4}{(2!)} \sum_{k_i} O_{k_1 k_2}^{20} \Omega_{k_3 k_4 k_5 k_1}^{31} \Omega_{k_6 k_7 k_3 k_4}^{22} \Omega_{k_6 k_7 k_3 k_4}^{11} \Omega_{k_6 k_7 k_5 k_2}^{20} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_2) \theta$$

$$= \frac{(-1)^4}{(2!)} \sum_{k_i} \frac{O_{k_1 k_2}^{20} \Omega_{k_3 k_4 k_5 k_1}^{31} \Omega_{k_6 k_7 k_3 k_4}^{22} \Omega_{k_6 k_7 k_3 k_4}^{11} \Omega_{k_6 k_7 k_5 k_2}^{00}}{\epsilon_{k_1 k_2}}$$

$$\rightarrow T6:$$

$$T6 = \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_3 + a_4)(a_3 + a_4)a_4}$$

$$a_1 = \epsilon_{k_1}^{k_3 k_4 k_5}$$

$$a_2 = \epsilon_{k_6 k_7}^{k_6 k_7}$$

$$a_3 = \epsilon_{k_8}^{k_6 k_7}$$

$$a_3 = \epsilon_{k_8}^{k_6}$$

$$a_3 = \epsilon_{k_8}^{k_6}$$

Diagram 288:

$$PO4.288 = \lim_{\tau \to \infty} -(-1)^4 \sum_{k_i} O_{k_1 k_2}^{20} \Omega_{k_3 k_4}^{20} \Omega_{k_5 k_6 k_3 k_1}^{22} \Omega_{k_7 k_5}^{11} \Omega_{k_7 k_5}^{04} \Omega_{k_7 k_6 k_4 k_2}^{04} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_2) \theta(\tau$$

Diagram 289:

$$PO4.289 = \lim_{\tau \to \infty} \frac{(-1)^4}{(2!)} \sum_{k_i} O_{k_1 k_2}^{20} \Omega_{k_3 k_4}^{20} \Omega_{k_5 k_6 k_7 k_3}^{31} \Omega_{k_8 k_5 k_6 k_1}^{13} \Omega_{k_8 k_7 k_4 k_2}^{04} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_2) \theta(\tau_$$

$$T6 = \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_3 + a_4)(a_3 + a_4)a_4}$$

$$a_1 = \epsilon^{k_3 k_4}$$

$$a_2 = \epsilon^{k_5 k_6 k_7}_{k_3}$$

$$a_3 = \epsilon^{k_8}_{k_1 k_5 k_6}$$

$$a_4 = \epsilon_{k_2 k_4 k_7 k_8}$$

$$(592)$$

Diagram 290:

Diagram 291:

$$PO4.291 = \lim_{\tau \to \infty} \frac{(-1)^4}{(2!)} \sum_{k_i} O_{k_1 k_2}^{20} \Omega_{k_3 k_4 k_5 k_1}^{31} \Omega_{k_6 k_7 k_3 k_2}^{22} \Omega_{k_8 k_6}^{11} \Omega_{k_8 k_7 k_4 k_5}^{04} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_2) \theta(\tau_$$

$$T6 = \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_3 + a_4)(a_3 + a_4)a_4}$$

$$a_1 = \epsilon_{k_1}^{k_3 k_4 k_5}$$

$$a_2 = \epsilon_{k_2 k_3}^{k_6 k_7}$$

$$a_3 = \epsilon_{k_6}^{k_8}$$

$$a_4 = \epsilon_{k_1 k_2 k_3}^{k_3 k_4 k_5}$$

$$a_4 = \epsilon_{k_1 k_2 k_3}^{k_4 k_5}$$

$$a_4 = \epsilon_{k_1 k_2 k_3}^{k_4 k_5}$$

$$a_5 = \epsilon_{k_6 k_5}^{k_5 k_5}$$

$$a_6 = \epsilon_{k_6 k_5}^{k_5 k_5}$$

$$a_7 = \epsilon_{k_6 k_5}^{k_5 k_5}$$

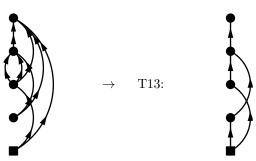
$$a_8 = \epsilon_{k_6 k_5}^{k_5 k_5}$$

$$a_8 = \epsilon_{k_6 k_5}^{k_5 k_5}$$

$$a_8 = \epsilon_{k_6 k_5}^{k_5 k_5}$$

Diagram 292:

$$PO4.292 = \lim_{\tau \to \infty} \frac{-(-1)^4}{(2!)} \sum_{k_i} O_{k_1 k_2}^{20} \Omega_{k_3 k_4}^{20} \Omega_{k_5 k_6 k_7 k_1}^{31} \Omega_{k_8 k_5 k_6 k_3}^{13} \Omega_{k_8 k_7 k_4 k_2}^{04} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_2) \theta(\tau$$



$$T13 = \frac{1}{(a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_4)a_4} + \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_3 + a_4)(a_3 + a_4)a_4}$$

$$a_1 = \epsilon^{k_3 k_4}$$

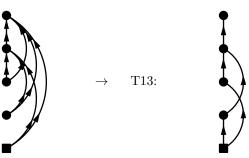
$$a_2 = \epsilon^{k_5 k_6 k_7}_{k_1}$$

$$a_3 = \epsilon^{k_8}_{k_3 k_5 k_6}$$

$$(598)$$

Diagram 293:

$$PO4.293 = \lim_{\tau \to \infty} \frac{-(-1)^4}{2} \sum_{k_i} O_{k_1 k_2}^{20} \Omega_{k_3 k_4}^{20} \Omega_{k_5 k_6}^{20} \Omega_{k_7 k_5 k_3 k_1}^{13} \Omega_{k_7 k_6 k_4 k_2}^{04} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_2) \theta$$



$$T13 = \frac{1}{(a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_4)a_4} + \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_3 + a_4)(a_3 + a_4)a_4}$$

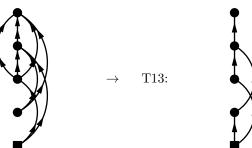
$$a_1 = \epsilon^{k_3 k_4}$$

$$a_2 = \epsilon^{k_5 k_6}$$

$$a_3 = \epsilon^{k_7}_{k_1 k_3 k_5}$$

Diagram 294:

$$PO4.294 = \lim_{\tau \to \infty} \frac{-(-1)^4}{(2!)} \sum_{k_i} O_{k_1 k_2}^{20} \Omega_{k_3 k_4}^{20} \Omega_{k_5 k_6 k_7 k_1}^{31} \Omega_{k_8 k_5 k_3 k_2}^{13} \Omega_{k_8 k_6 k_7 k_4}^{04} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_2) \theta(\tau$$



$$T13 = \frac{1}{(a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_4)a_4} + \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_3 + a_4)(a_3 + a_4)a_4}$$

$$a_1 = \epsilon^{k_3 k_4}$$

$$a_2 = \epsilon^{k_5 k_6 k_7}_{k_1}$$

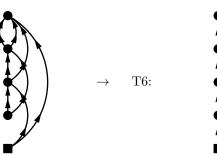
$$a_3 = \epsilon^{k_8}_{k_2 k_3 k_5}$$

$$(602)$$

$$a_3 = \epsilon_{k_2 k_3 k_5}^{k_8}$$

Diagram 295:

$$PO4.295 = \lim_{\tau \to \infty} \frac{(-1)^4}{(2!)} \sum_{k_i} O_{k_1 k_2}^{20} \Omega_{k_3 k_4}^{20} \Omega_{k_5 k_6 k_3 k_1}^{22} \Omega_{k_7 k_8 k_5 k_4}^{22} \Omega_{k_7 k_8 k_6 k_2}^{40} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_2) \theta(\tau_$$



$$T6 = \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_3 + a_4)(a_3 + a_4)a_4}$$

$$a_1 = \epsilon^{k_3 k_4}$$

$$a_2 = \epsilon^{k_5 k_6}_{k_1 k_3}$$

$$a_3 = \epsilon^{k_7 k_8}_{k_4 k_5}$$

$$a_4 = \epsilon$$
(604)

Diagram 296:

$$PO4.296 = \lim_{\tau \to \infty} \frac{(-1)^4}{(2!)} \sum_{k_i} O_{k_1 k_2}^{20} \Omega_{k_3 k_4}^{20} \Omega_{k_3 k_4}^{31} \Omega_{k_5 k_6 k_7 k_3}^{13} \Omega_{k_5 k_6 k_7 k_2}^{13} \Omega_{k_5 k_6 k_7 k_2}^{04} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_2) \theta$$

$$= \frac{(-1)^4}{(2!)} \sum_{k_i} \frac{O_{k_1 k_2}^{20} \Omega_{k_3 k_4}^{20} \Omega_{k_5 k_6 k_7 k_3}^{20} \Omega_{k_5 k_5 k_4 k_1}^{13} \Omega_{k_5 k_6 k_7 k_5}^{04}}{\epsilon_{k_1 k_2}} \frac{O_{k_5 k_4}^{20} \Omega_{k_5 k_6 k_7 k_3}^{20} \Omega_{k_5 k_5 k_4 k_1}^{13} \Omega_{k_5 k_6 k_7 k_5}^{04}}{(605)}$$

$$\rightarrow T6:$$

$$\frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_3 + a_4)(a_3 + a_4)a_4}$$

$$a_1 = \epsilon^{k_3 k_4}$$

$$a_2 = \epsilon^{k_5 k_6 k_7}_{k_3}$$

$$a_3 = \epsilon^{k_5}_{k_1 k_4 k_5}$$

$$a_3 = \epsilon^{k_5 k_5 k_5}_{k_1 k_4 k_5}$$

Diagram 297:

$$PO4.297 = \lim_{\tau \to \infty} \frac{(-1)^4}{(2!)} \sum_{k_i} O_{k_1 k_2}^{20} \Omega_{k_3 k_4 k_5 k_1}^{31} \Omega_{k_6 k_7 k_3 k_4}^{22} \Omega_{k_8 k_6 k_5 k_2}^{13} \Omega_{k_8 k_7}^{02} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_2) \theta(\tau_$$

(608)

 $a_4 = \epsilon_{k_2 k_2 k_3 k_5}$

$$a_1 = \epsilon_{k_1}^{k_3 k_4 k_5}$$

$$a_2 = \epsilon_{k_3 k_4}^{k_6 k_7}$$

$$a_3 = \epsilon_{k_2 k_5 k_6}^{k_8}$$

$$a_4 = \epsilon_{k_7 k_8}$$

Diagram 298:

$$PO4.298 = \lim_{\tau \to \infty} -(-1)^4 \sum_{k_i} O_{k_1 k_2}^{20} \Omega_{k_3 k_4}^{20} \Omega_{k_5 k_6 k_3 k_1}^{22} \Omega_{k_7 k_5}^{13} \Omega_{k_7 k_5 k_4 k_2}^{02} \Omega_{k_7 k_6}^{02} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_2) \theta(\tau$$

Diagram 299:

$$PO4.299 = \lim_{\tau \to \infty} \frac{(-1)^4}{(2!)} \sum_{k_i} O_{k_1 k_2}^{20} \Omega_{k_3 k_4 k_5 k_1}^{31} \Omega_{k_6 k_7 k_3 k_2}^{22} \Omega_{k_8 k_6 k_4 k_5}^{13} \Omega_{k_8 k_6}^{02} \int_{0}^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_2) \theta$$

$$= \frac{(-1)^4}{(2!)} \sum_{k_i} \frac{O_{k_1 k_2}^{20} \Omega_{k_3 k_4 k_5 k_1}^{31} \Omega_{k_6 k_7 k_3 k_2}^{22} \Omega_{k_8 k_6 k_4 k_5}^{13} \Omega_{k_8 k_6}^{02}}{\epsilon_{k_1 k_2} \epsilon_{k_2 k_3 k_4 k_5} \epsilon_{k_4 k_5 k_6 k_7} \epsilon_{k_7 k_8}}$$

$$\rightarrow T6:$$

$$(611)$$

$$T6 = \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_3 + a_4)(a_3 + a_4)a_4}$$

$$a_1 = \epsilon_{k_1}^{k_3 k_4 k_5}$$

$$a_2 = \epsilon_{k_2 k_3}^{k_6 k_7}$$

$$a_3 = \epsilon_{k_3 k_4 k_5 k_6}^{k_8}$$

$$a_4 = \epsilon_{k_7 k_8}$$

$$(612)$$

Diagram 300:

$$\text{PO4.300} = \lim_{\tau \to \infty} (-1)^4 \sum_{k_i} O_{k_1 k_2}^{20} \Omega_{k_3 k_1}^{11} \Omega_{k_4 k_5 k_3 k_2}^{22} \Omega_{k_6 k_4}^{11} \Omega_{k_6 k_5}^{02} \int_0^{\tau} \mathrm{d}\tau_1 \mathrm{d}\tau_2 \mathrm{d}\tau_3 \mathrm{d}\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_{k_1}^{k_3}} e^{-\tau_1 \epsilon_{k_1}^$$

Diagram 301:

$$PO4.301 = \lim_{\tau \to \infty} \frac{(-1)^4}{(3!)} \sum_{k_i} O_{k_1 k_2}^{20} \Omega_{k_3 k_1}^{11} \Omega_{k_4 k_5 k_3 k_2}^{22} \Omega_{k_6 k_7 k_8 k_4}^{31} \Omega_{k_6 k_7 k_8 k_5}^{42} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_3} d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_3} d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_3} d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_3} d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_3} d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_3} d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_3} d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_3} d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_3} d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_3} d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_3} d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_3} d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_3} d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_3} d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_3} d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_3} d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_3} d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_3} d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_3} d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_3} d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_3} d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_3} d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_3} d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_3} d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_3} d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_3} d\tau_4 \theta(\tau_4 - \tau_3) e^{-\tau_4} d\tau_4 \theta(\tau_4 - \tau_3) e^{-\tau_4} d\tau_4 \theta(\tau_4 - \tau_4) \theta(\tau_4 - \tau_4) e^{-\tau_4} d\tau_4 \theta(\tau_4 - \tau_4)$$

Diagram 302:

$$T6 = \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_3 + a_4)(a_3 + a_4)a_4}$$

$$a_1 = \epsilon_{k_1}^{k_3}$$

$$a_2 = \epsilon_{k_3}^{k_4 k_5 k_6}$$

$$a_3 = \epsilon_{k_2 k_4}^{k_7 k_8}$$

$$a_4 = \epsilon_{k_5 k_6 k_7 k_8}$$

$$a_4 = \epsilon_{k_5 k_6 k_7 k_8}$$

$$(618)$$

Diagram 303:

Diagram 304:

$$PO4.304 = \lim_{\tau \to \infty} \frac{-(-1)^4}{(2!)^2} \sum_{k_i} O_{k_1 k_2}^{20} \Omega_{k_3 k_4}^{20} \Omega_{k_5 k_6 k_3 k_4}^{22} \Omega_{k_7 k_8 k_5 k_1}^{20} \Omega_{k_7 k_8 k_6 k_2}^{40} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) \theta(\tau_4 - \tau_3) \theta(\tau_4 - \tau_3) \theta(\tau_4 - \tau_4) \theta$$

$$T6 = \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_3 + a_4)(a_3 + a_4)a_4}$$

$$a_1 = \epsilon^{k_3 k_4}$$

$$a_2 = \epsilon^{k_5 k_6}_{k_3 k_4}$$

$$a_3 = \epsilon^{k_7 k_8}_{k_1 k_5}$$

$$a_4 = \epsilon \cdot \dots$$
(622)

Diagram 305:

Diagram 306:

$$PO4.306 = \lim_{\tau \to \infty} \frac{(-1)^4}{(2!)^2} \sum_{k_i} O_{k_1 k_2}^{20} \Omega_{k_3 k_1}^{11} \Omega_{k_4 k_5 k_6 k_3}^{31} \Omega_{k_7 k_8 k_4 k_5}^{22} \Omega_{k_7 k_8 k_4 k_5}^{04} \Omega_{k_7 k_8 k_6 k_2}^{04} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_1 t_4 t_5 t_5} \frac{(-1)^4}{(2!)^2} \sum_{k_i} \frac{O_{k_1 k_2}^{20} \Omega_{k_3 k_1}^{11} \Omega_{k_4 k_5 k_6 k_3}^{31} \Omega_{k_7 k_8 k_4 k_5}^{22} \Omega_{k_7 k_8 k_6 k_2}^{04}}{\epsilon_{k_1 k_2} \epsilon_{k_3 k_2} \epsilon_{k_3 k_2} \epsilon_{k_4 k_5 k_2 k_6} \epsilon_{k_2 k_6 k_7 k_8}}$$

$$(625)$$

$$T6 = \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_3 + a_4)(a_3 + a_4)a_4}$$

$$(625)$$

$$a_{1} = \epsilon_{k_{1}}^{k_{3}}$$

$$a_{2} = \epsilon_{k_{3}}^{k_{4}k_{5}k_{6}}$$

$$a_{3} = \epsilon_{k_{4}k_{5}}^{k_{7}k_{8}}$$

$$a_{4} = \epsilon_{k_{7}k_{6}k_{7}k_{8}}$$

Diagram 307:

$$PO4.307 = \lim_{\tau \to \infty} \frac{(-1)^4}{(3!)} \sum_{k_i} O_{k_1 k_2}^{20} \Omega_{k_3 k_4}^{11} \Omega_{k_4 k_5 k_6 k_3}^{31} \Omega_{k_7 k_4 k_5 k_6}^{13} \Omega_{k_7 k_4 k_5 k_6}^{002} \Omega_{k_7 k_2}^{00} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_{k_1}^k a} e^{-\tau_2 \epsilon_{k_3}^k k_3 k_4} e^{-\tau_2 \epsilon_{k_3}^k a}$$

$$= \frac{(-1)^4}{(3!)} \sum_{k_i} \frac{O_{k_1 k_2}^{20} \Omega_{k_3 k_4}^{11} \Omega_{k_4 k_5 k_6 k_3}^{31} \Omega_{k_7 k_4 k_5 k_6}^{13} \Omega_{k_7 k_4}^{002}}{\epsilon_{k_1 k_2} \epsilon_{k_3 k_2} \epsilon_{k_3 k_5} \epsilon_{k_2 k_7}}$$

$$(627)$$

$$T6 = \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_3 + a_4)(a_3 + a_4)a_4}$$

$$a_1 = \epsilon_{k_3}^k$$

$$a_2 = \epsilon_{k_3}^{k_4 k_5 k_6}$$

$$a_3 = \epsilon_{k_3}^{k_7}$$

$$a_3 = \epsilon_{k_4 k_5 k_6}^{k_7}$$

$$a_3 = \epsilon_{k_4 k_5 k_6}^{k_7}$$

Diagram 308:

$$PO4.308 = \lim_{\tau \to \infty} (-1)^4 \sum_{k_i} O_{k_1 k_2}^{20} \Omega_{k_1 k_2}^{11} \Omega_{k_4 k_3}^{11} \Omega_{k_5 k_4}^{11} \Omega_{k_5 k_2}^{11} \Omega_{k_5 k_2}^{11} \Omega_{k_5 k_2}^{11} \Omega_{k_5 k_4}^{11} \Omega_{k_5 k_5}^{11} \Omega_{$$

Diagram 309:

$$PO4.309 = \lim_{\tau \to \infty} \frac{(-1)^4}{(3!)} \sum_{k_i} O_{k_1 k_2}^{20} \Omega_{k_3 k_1}^{11} \Omega_{k_4 k_3}^{11} \Omega_{k_5 k_6 k_7 k_4}^{31} \Omega_{k_5 k_6 k_7 k_2}^{40} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_{k_1}^{k_3}} e^{-\tau_2 \epsilon_{k_3}^{k_4}} e^{-\tau_2 \epsilon_{k_3}^{k_5}} e^{-\tau_2 \epsilon_{k_3}^{k_5}} e^{-\tau_2 \epsilon_{k_3}^{k_5}} e^{-\tau_2 \epsilon_{k_3}^{k_5}} e^{-\tau_2 \epsilon_{k_3}$$

Diagram 310:

$$\begin{aligned} \text{PO4.310} &= \lim_{\tau \to \infty} \frac{(-1)^4}{(3!)} \sum_{k_i} O_{k_1 k_2}^{20} \Omega_{k_3 k_4 k_5 k_1}^{31} \Omega_{k_6 k_3 k_4 k_5}^{13} \Omega_{k_7 k_6}^{13} \Omega_{k_7 k_2}^{02} \int_0^{\tau} \mathrm{d}\tau_1 \mathrm{d}\tau_2 \mathrm{d}\tau_3 \mathrm{d}\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_{k_1}^{k_3 k_4 k_5}} e^{-\tau_2} \\ &= \frac{(-1)^4}{(3!)} \sum_{k_i} \frac{O_{k_1 k_2}^{20} \Omega_{k_3 k_4 k_5 k_1}^{31} \Omega_{k_6 k_3 k_4 k_5}^{13} \Omega_{k_7 k_6}^{13} \Omega_{k_7 k_2}^{02}}{\epsilon_{k_1 k_2}} \\ &\rightarrow \qquad \text{T6:} \end{aligned}$$

$$\rightarrow \qquad \text{T6:}$$

$$a_1 = \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_3 + a_4)(a_3 + a_4)a_4}$$

$$a_2 = \epsilon_{k_3 k_4 k_5}^{k_3 k_4 k_5}$$

$$a_3 = \epsilon_{k_7}^{k_7}$$

$$a_3 = \epsilon_{k_6}^{k_7}$$

Diagram 311:

$$PO4.311 = \lim_{\tau \to \infty} \frac{(-1)^4}{(2!)} \sum_{k_i} O_{k_1 k_2}^{20} \Omega_{k_3 k_4}^{20} \Omega_{k_5 k_3 k_4 k_1}^{13} \Omega_{k_6 k_5}^{11} \Omega_{k_6 k_2}^{02} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon^{k_3 k_4}} e^{-\tau_2 \epsilon^{k_5}_{k_1 k_3 k_4}} e^{-\tau_2 \epsilon^{k_5}_{k_5 k_5}} e^{-\tau_2 \epsilon^{k_5}_{k_$$

$$76 = \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_3 + a_4)(a_3 + a_4)a_4}$$

$$a_1 = \epsilon^{k_3 k_4}$$

$$a_2 = \epsilon^{k_5}_{k_1 k_3 k_4}$$

$$a_3 = \epsilon^{k_6}_{k_5}$$

$$a_4 = \epsilon_{k_2 k_6}$$
(636)

Diagram 312:

$$PO4.312 = \lim_{\tau \to \infty} \frac{(-1)^4}{(2!)(3!)} \sum_{k_i} O_{k_1 k_2}^{20} \Omega_{k_3 k_4}^{20} \Omega_{k_5 k_3 k_4 k_1}^{13} \Omega_{k_6 k_7 k_8 k_5}^{31} \Omega_{k_6 k_7 k_8 k_2}^{04} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon^{k_3 k_4}} e^{-\tau_1 \epsilon^{k_3$$

Diagram 313:

$$T6 = \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_3 + a_4)(a_3 + a_4)a_4}$$

$$a_1 = \epsilon^{k_3 k_4}$$

$$a_2 = \epsilon^{k_5 k_6}_{k_3 k_4}$$

$$a_3 = \epsilon^{k_7}_{k_1 k_5 k_6}$$

$$a_4 = \epsilon_{k_2 k_7}$$

$$(640)$$

Diagram 314:

$$PO4.314 = \lim_{\tau \to \infty} \frac{(-1)^4}{(2!)} \sum_{k_i} O_{k_1 k_2}^{20} \Omega_{k_3 k_1}^{11} \Omega_{k_4 k_3}^{11} \Omega_{k_5 k_6 k_4 k_2}^{20} \Omega_{k_5 k_6}^{02} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_{k_3}^{k_3}} e^{-\tau_2 \epsilon_{k_3}^{k_4}} e^{-\tau_3 \epsilon_{k_3}^{k_4}}$$

$$a_1 = \epsilon_{k_1}^{k_3}$$

$$a_2 = \epsilon_{k_3}^{k_4}$$

$$a_3 = \epsilon_{k_2k}^{k_5k}$$

$$a_4 = \epsilon_{k_5k}$$

Diagram 315:

$$PO4.315 = \lim_{\tau \to \infty} \frac{(-1)^4}{(2!)(3!)} \sum_{k_i} O_{k_1 k_2}^{20} \Omega_{k_3 k_4 k_5 k_1}^{31} \Omega_{k_6 k_3 k_4 k_5}^{13} \Omega_{k_7 k_8 k_6 k_2}^{22} \Omega_{k_7 k_8}^{02} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_{k_1}^{k_3 k_4 k_5}}$$

$$= \frac{(-1)^4}{(2!)(3!)} \sum_{k_i} \frac{O_{k_1 k_2}^{20} \Omega_{k_3 k_4 k_5 k_1}^{31} \Omega_{k_6 k_3 k_4 k_5}^{13} \Omega_{k_7 k_8 k_6 k_2}^{22} \Omega_{k_7 k_8}^{02}}{\epsilon_{k_1 k_2} \epsilon_{k_3 k_4 k_5 k_2} \epsilon_{k_2 k_6} \epsilon_{k_7 k_8}}$$

$$\rightarrow T6:$$

$$(643)$$

(644)

$$a_1 = \epsilon_{k_1}^{k_3 k_4 k_5}$$

$$a_2 = \epsilon_{k_3 k_4 k_5}^{k_6}$$

$$a_3 = \epsilon_{k_2 k_6}^{k_7 k_8}$$

$$a_4 = \epsilon_{k_7 k_8}$$

Diagram 316:

$$PO4.316 = \lim_{\tau \to \infty} \frac{(-1)^4}{(2!)^2} \sum_{k_i} O_{k_1 k_2}^{20} \Omega_{k_2 k_4}^{20} \Omega_{k_3 k_4}^{13} \Omega_{k_6 k_7 k_5 k_2}^{22} \Omega_{k_6 k_7}^{02} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon^{k_3 k_4}} e^{-\tau_2 \epsilon^{k_1}_{k_1}} e^{-\tau_2 \epsilon^{k_1}_{k_2}} e^{-\tau_2 \epsilon^{k_1}_{k_3}} e^{-\tau_2 \epsilon^{k_1}_{k_4}} e^{-\tau_2 \epsilon^{k_1}_{k_4}}$$

Diagram 317:

$$PO4.317 = \lim_{\tau \to \infty} \frac{(-1)^4}{(2!)^2} \sum_{k_i} O_{k_1 k_2}^{20} \Omega_{k_3 k_1}^{11} \Omega_{k_4 k_5 k_3 k_2}^{22} \Omega_{k_6 k_7 k_4 k_5}^{20} \Omega_{k_6 k_7}^{02} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_{k_1}^k \epsilon_3} e^{-\tau_2 \epsilon_{k_2 k_3}^{k_4 k_5}} e^{-\tau_2 \epsilon_{k_2 k_3}^{k_4 k_5}} d\tau_4 e^{-\tau_2 \epsilon_{k_2 k_3}^{k_4 k_5}} \frac{(647)}{(2!)^2} \sum_{k_i} \frac{O_{k_1 k_2}^{20} \Omega_{k_3 k_1}^{13} \Omega_{k_4 k_5}^{22} \Omega_{k_6 k_7 k_4 k_5}^{22} \Omega_{k_6 k_7}^{22}}{\epsilon_{k_1 k_2} \epsilon_{k_2 k_3} \epsilon_{k_4 k_5} \epsilon_{k_6 k_7}} d\tau_5 e^{-\tau_2 \epsilon_{k_2 k_3}^{k_4 k_5}} d\tau_5 e^{-\tau_2 \epsilon_{k_2 k_5}^{k_4 k_5}} d\tau_5 e^{-\tau_2 \epsilon_{k_2 k_5}^{k$$

Diagram 318:

$$PO4.318 = \lim_{\tau \to \infty} \frac{-(-1)^4}{(2!)^2} \sum_{k_i} O_{k_1 k_2}^{20} \Omega_{k_3 k_4 k_5 k_1}^{31} \Omega_{k_6 k_3 k_4 k_2}^{13} \Omega_{k_7 k_8 k_6 k_5}^{20} \Omega_{k_7 k_8}^{02} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_3) d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_3) d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_3) d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_3) d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_3) d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_3) d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_3) d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_4 - \tau_3) d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_4 - \tau_3) d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_4 - \tau_3) d\tau_4 \theta(\tau_4 - \tau_4) d\tau_4 \theta(\tau_4$$

Diagram 319:

$$PO4.319 = \lim_{\tau \to \infty} \frac{(-1)^4}{(3!)} \sum_{k_i} O_{k_1 k_2}^{20} \Omega_{k_3 k_4 k_5 k_6}^{40} \Omega_{k_7 k_3 k_4 k_5}^{13} \Omega_{k_8 k_7 k_6 k_1}^{12} \Omega_{k_8 k_2}^{40} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e$$

$$= \frac{(-1)^4}{(3!)} \sum_{k_i} \frac{O_{k_1 k_2}^{20} \Omega_{k_3 k_4 k_5 k_6}^{40} \Omega_{k_7 k_3 k_4 k_5}^{13} \Omega_{k_8 k_7 k_6 k_1}^{12} \Omega_{k_8 k_2}^{02}}{\epsilon_{k_1 k_2} \epsilon_{k_3 k_4 k_5 k_1 k_6 k_2} \epsilon_{k_1 k_6 k_7 k_2} \epsilon_{k_2 k_8}}$$

$$\rightarrow T6:$$

$$T6 = \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_3 + a_4)(a_3 + a_4)a_4}$$

$$a_1 = \epsilon_{k_7 k_4 k_5}^{k_7}$$

$$a_2 = \epsilon_{k_7 k_3 k_4 k_5}^{k_7}$$

$$a_3 = \epsilon_{k_1 k_6 k_7}^{k_7}$$

$$a_3 = \epsilon_{k_1 k_6 k_7}^{k_7}$$

$$a_4 = \epsilon_{k_7 k_4 k_5}^{k_7}$$

$$a_4 = \epsilon_{k_7 k_4 k_5}^{k_7}$$

$$a_5 = \epsilon_{k_7 k_6 k_7}^{k_7}$$

Diagram 320:

$$PO4.320 = \lim_{\tau \to \infty} (-1)^4 \sum_{k_i} O_{k_1 k_2}^{20} \Omega_{k_3 k_4}^{20} \Omega_{k_5 k_3}^{11} \Omega_{k_6 k_5 k_4 k_1}^{13} \Omega_{k_6 k_2}^{02} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon^{k_3 k_4}} e^{-\tau_1 \epsilon$$

$$T6 = \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_3 + a_4)(a_3 + a_4)a_4}$$

$$a_1 = \epsilon^{k_3 k_4}$$

$$a_2 = \epsilon^{k_5}_{k_3}$$

$$a_3 = \epsilon^{k_6}_{k_1 k_4 k_5}$$

$$a_4 = \epsilon_{k_2 k_6}$$

$$(654)$$

Diagram 321:

$$PO4.321 = \lim_{\tau \to \infty} \frac{(-1)^4}{(2!)^2} \sum_{k_i} O_{k_1 k_2}^{20} \Omega_{k_3 k_4 k_5 k_6}^{40} \Omega_{k_7 k_3 k_4 k_1}^{13} \Omega_{k_8 k_7 k_5 k_6}^{13} \Omega_{k_8 k_2}^{02} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e$$

$$= \frac{(-1)^4}{(2!)^2} \sum_{k_i} \frac{O_{k_1 k_2}^{20} \Omega_{k_3 k_4 k_5 k_6}^{40} \Omega_{k_7 k_3 k_4 k_1}^{13} \Omega_{k_8 k_7 k_5 k_6}^{13} \Omega_{k_8 k_7}^{02}}{\epsilon_{k_1 k_2}}$$

$$\rightarrow T6:$$

$$T6 = \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_3 + a_4)(a_3 + a_4)a_4}$$

$$a_1 = \epsilon_{k_3 k_4 k_5 k_6}^{k_3 k_4}$$

$$a_2 = \epsilon_{k_1 k_3 k_4}^{k_7}$$

$$a_3 = \epsilon_{k_5 k_6 k_7}^{k_5}$$

$$a_3 = \epsilon_{k_5 k_6 k_7}^{k_5}$$

$$a_4 = \epsilon_{k_5 k_6 k_7}^{k_5}$$

$$a_5 = \epsilon_{k_5 k_6 k_7}^{k_5}$$

$$a_6 = \epsilon_{k_5 k_6 k_7}^{k_7}$$

$$a_7 = \epsilon_{k_5 k_6 k_7}^{k_7}$$

$$a_8 = \epsilon_{k_5 k_6 k_7}^{k_7}$$

$$a_8 = \epsilon_{k_5 k_6 k_7}^{k_7}$$

Diagram 322:

$$PO4.322 = \lim_{\tau \to \infty} \frac{-(-1)^4}{(2!)} \sum_{k_i} O_{k_1 k_2}^{20} \Omega_{k_3 k_4}^{20} \Omega_{k_5 k_6 k_3 k_1}^{22} \Omega_{k_7 k_5 k_6 k_4}^{13} \Omega_{k_7 k_5 k_6 k_4}^{13} \Omega_{k_7 k_5}^{22} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_3} d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_3} d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_3} d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_3} d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_3} d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_3} d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_3} d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_3} d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_3} d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_3} d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_3} d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_3} d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_3} d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_3} d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_3} d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_3} d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_3} d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_3} d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_3} d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_3} d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_3} d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_3} d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_3} d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_3} d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_3} d\tau_4 \theta(\tau_4 - \tau_4) e^{-\tau_3} d\tau_4 \theta(\tau_4 - \tau_4) e^{-\tau_3} d\tau_4 \theta(\tau_4 - \tau_4) e^{-\tau_4}$$

$$T6 = \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_3 + a_4)(a_3 + a_4)a_4}$$

$$a_1 = \epsilon^{k_3 k_4}$$

$$a_2 = \epsilon^{k_5 k_6}_{k_1 k_3}$$

$$a_3 = \epsilon^{k_7}_{k_4 k_5 k_6}$$

$$a_4 = \epsilon_{k_2 k_7}$$

$$(658)$$

Diagram 323:

Diagram 324:

$$a_1 = \epsilon_{k_1}^{k_3 k_4 k_5}$$

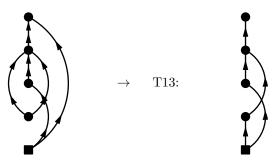
$$a_2 = \epsilon_{k_3}^{k_6}$$

$$a_3 = \epsilon_{k_4 k_5 k_6}^{k_7}$$

$$a_4 = \epsilon_{k_2 k_7}$$

Diagram 325:

$$\begin{aligned} \text{PO4.325} &= \lim_{\tau \to \infty} \frac{(-1)^4}{(2!)} \sum_{k_i} O_{k_1 k_2}^{20} \Omega_{k_3 k_4}^{20} \Omega_{k_5 k_1}^{11} \Omega_{k_6 k_5 k_3 k_4}^{13} \Omega_{k_6 k_2}^{02} \int_0^{\tau} \mathrm{d}\tau_1 \mathrm{d}\tau_2 \mathrm{d}\tau_3 \mathrm{d}\tau_4 \theta(\tau_3 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon^{k_3 k_4}} e^{-\tau_2 \epsilon^{k_5}_{k_1}} e^{-\tau_2$$



$$T13 = \frac{1}{(a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_4)a_4} + \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_3 + a_4)(a_3 + a_4)a_4}$$
 (664)

$$a_{1} = \epsilon^{k_{3}k_{4}}$$

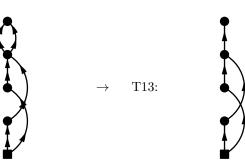
$$a_{2} = \epsilon^{k_{5}}_{k_{1}}$$

$$a_{3} = \epsilon^{k_{6}}_{k_{3}k_{4}k_{5}}$$

$$a_{4} = \epsilon_{k_{2}k_{6}}$$

Diagram 326:

$$PO4.326 = \lim_{\tau \to \infty} \frac{-(-1)^4}{2(2!)} \sum_{k_i} O_{k_1 k_2}^{20} \Omega_{k_3 k_1}^{11} \Omega_{k_4 k_2}^{11} \Omega_{k_5 k_6 k_4 k_3}^{22} \Omega_{k_5 k_6}^{02} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_3 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_{k_1}^{k_3}} e^{-\tau_2 \epsilon_{k_2}^{k_4}} e^{-\tau_2 \epsilon_{k_2}^{k_4}$$



$$T13 = \frac{1}{(a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_4)a_4} + \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_3 + a_4)(a_3 + a_4)a_4}$$
(666)

$$a_1 = \epsilon_{k_1}^{k_3}$$

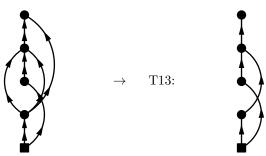
$$a_2 = \epsilon_{k_2}^{k_4}$$

$$a_3 = \epsilon_{k_3 k_4}^{k_5 k_6}$$

$$a_4 = \epsilon_{k_5 k_6}$$

Diagram 327:

$$PO4.327 = \lim_{\tau \to \infty} \frac{-(-1)^4}{(2!)} \sum_{k_i} O_{k_1 k_2}^{20} \Omega_{k_3 k_4 k_5 k_1}^{31} \Omega_{k_6 k_2}^{11} \Omega_{k_7 k_6 k_3 k_4}^{13} \Omega_{k_7 k_5}^{02} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_1} d\tau_2 d\tau_3 d\tau_4 \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_1} d\tau_2 d\tau_3 d\tau_4 \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_1} d\tau_2 d\tau_3 d\tau_4 \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_$$



$$T13 = \frac{1}{(a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_4)a_4} + \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_3 + a_4)(a_3 + a_4)a_4}$$
 (668)

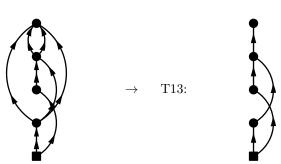
$$a_{1} = \epsilon_{k_{1}}^{k_{3}k_{4}k_{5}}$$

$$a_{2} = \epsilon_{k_{2}}^{k_{6}}$$

$$a_{3} = \epsilon_{k_{3}k_{4}k_{6}}^{k_{7}}$$

Diagram 328:

$$PO4.328 = \lim_{\tau \to \infty} \frac{-(-1)^4}{(2!)^2} \sum_{k_i} O_{k_1 k_2}^{20} \Omega_{k_3 k_4 k_5 k_1}^{31} \Omega_{k_6 k_2}^{11} \Omega_{k_7 k_8 k_6 k_3}^{22} \Omega_{k_7 k_8 k_6 k_3}^{04} \Omega_{k_7 k_8 k_4 k_5}^{04} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) d\tau_4 \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) d\tau_4 \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) d\tau_4 \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) d\tau_4 \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) d\tau_4 \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) d\tau_4 \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) d\tau_4 \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) d\tau_4 \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) d\tau_4 \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) d\tau_4 \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) d\tau_4 \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) d\tau_4 \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) d\tau_4 \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) d\tau_4 \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) d\tau_4 \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) d\tau_4 \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) d\tau_4 \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) d\tau_4 \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) d\tau_4 \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) d\tau_4 \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) d\tau_4 \theta(\tau_4 - \tau_3) d\tau_4 \theta(\tau_4 - \tau_3) d\tau_4 \theta(\tau_4 - \tau_4) d\tau_4$$



$$T13 = \frac{1}{(a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_4)a_4} + \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_3 + a_4)(a_3 + a_4)a_4}$$
 (670)

$$a_{1} = \epsilon_{k_{1}}^{k_{3}k_{4}k_{5}}$$

$$a_{2} = \epsilon_{k_{2}}^{k_{6}}$$

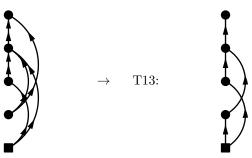
$$a_{3} = \epsilon_{k_{3}k_{6}}^{k_{7}k_{8}}$$

$$a_{4} = \epsilon_{k_{4}k_{5}k_{7}k_{8}}$$

Diagram 329:

$$\begin{split} \text{PO4.329} &= \lim_{\tau \to \infty} - (-1)^4 \sum_{k_i} O_{k_1 k_2}^{20} \Omega_{k_3 k_4}^{20} \Omega_{k_5 k_1}^{11} \Omega_{k_6 k_5 k_3 k_2}^{13} \Omega_{k_6 k_4}^{02} \int_0^{\tau} \mathrm{d}\tau_1 \mathrm{d}\tau_2 \mathrm{d}\tau_3 \mathrm{d}\tau_4 \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon^{k_3 k_4}} \\ &= - (-1)^4 \sum_{k_i} O_{k_1 k_2}^{20} \Omega_{k_3 k_4}^{20} \Omega_{k_5 k_1}^{11} \Omega_{k_6 k_5 k_3 k_2}^{13} \Omega_{k_6 k_4}^{02} \left[\frac{1}{\epsilon_{k_2 k_5}} \frac{1}{\epsilon_{k_1 k_2}} \frac{1}{\epsilon_{k_2 k_3 k_5 k_4}} \frac{1}{\epsilon_{k_4 k_6}} + \frac{1}{\epsilon_{k_1 k_2}} \frac{1}{\epsilon_{k_1 k_2 k_3 k_4}} \frac{1}{\epsilon_{k_2 k_3 k_5 k_4}} \frac{1}{\epsilon_{k_4 k_6}} \right] \end{split}$$

$$(671)$$



$$T13 = \frac{1}{(a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_4)a_4} + \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_3 + a_4)(a_3 + a_4)a_4}$$
 (672)

$$a_{1} = \epsilon^{k_{3}k_{4}}$$

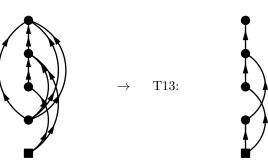
$$a_{2} = \epsilon^{k_{5}}_{k_{1}}$$

$$a_{3} = \epsilon^{k_{6}}_{k_{2}k_{3}k_{5}}$$

$$a_{4} = \epsilon_{k_{4}k_{6}}$$

Diagram 330:

$$PO4.330 = \lim_{\tau \to \infty} \frac{-(-1)^4}{(3!)} \sum_{k_i} O_{k_1 k_2}^{20} \Omega_{k_3 k_4 k_5 k_6}^{40} \Omega_{k_7 k_1}^{11} \Omega_{k_8 k_7 k_3 k_2}^{13} \Omega_{k_8 k_4 k_5 k_6}^{04} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) \theta(\tau_4 - \tau_3) \theta(\tau_4 - \tau_3) \theta(\tau_4 - \tau_4) \theta(\tau_3 - \tau_4) \theta(\tau_4 - \tau_4) \theta(\tau_3 - \tau_4) \theta(\tau_4 - \tau_4) \theta(\tau$$



$$T13 = \frac{1}{(a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_4)a_4} + \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_3 + a_4)(a_3 + a_4)a_4}$$
 (674)

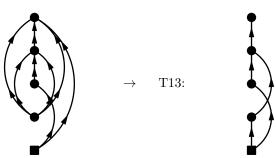
$$a_{1} = \epsilon^{k_{3}k_{4}k_{5}k_{6}}$$

$$a_{2} = \epsilon^{k_{7}}_{k_{1}}$$

$$a_{3} = \epsilon^{k_{8}}_{k_{2}k_{3}k_{7}}$$

$$a_{4} = \epsilon_{k_{4}k_{5}k_{6}k_{8}}$$

Diagram 331:



$$T13 = \frac{1}{(a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_4)a_4} + \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_3 + a_4)(a_3 + a_4)a_4}$$
 (676)

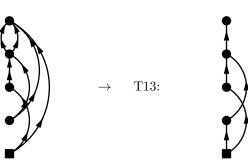
$$a_{1} = \epsilon^{k_{3}k_{4}k_{5}k_{6}}$$

$$a_{2} = \epsilon^{k_{7}}_{k_{1}}$$

$$a_{3} = \epsilon^{k_{8}}_{k_{3}k_{4}k_{7}}$$

$$a_{4} = \epsilon_{k_{2}k_{5}k_{6}k_{8}}$$

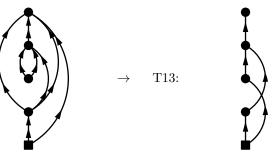
Diagram 332:



$$T13 = \frac{1}{(a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_4)a_4} + \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_3 + a_4)(a_3 + a_4)a_4}$$
 (678)

$$\begin{aligned} a_1 &= \epsilon^{k_3 k_4} \\ a_2 &= \epsilon^{k_5}_{k_1} \\ a_3 &= \epsilon^{k_6 k_7}_{k_3 k_5} \\ a_4 &= \epsilon_{k_2 k_4 k_6 k_7} \end{aligned}$$

Diagram 333:



$$T13 = \frac{1}{(a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_4)a_4} + \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_3 + a_4)(a_3 + a_4)a_4}$$

$$a_1 = \epsilon_{k_1}^{k_3 k_4 k_5}$$

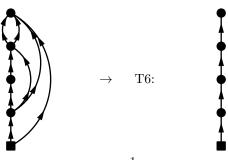
$$a_2 = \epsilon_{k_6 k_7}^{k_6 k_7}$$

$$a_3 = \epsilon_{k_3 k_6 k_7}^{k_8}$$

$$a_4 = \epsilon_{k_3 k_5 k_7}^{k_8}$$

Diagram 334:

$$PO4.334 = \lim_{\tau \to \infty} \frac{(-1)^4}{(2!)} \sum_{k_i} O_{k_1 k_2}^{20} \Omega_{k_3 k_4 k_5 k_1}^{31} \Omega_{k_6 k_3}^{12} \Omega_{k_7 k_8 k_6 k_4}^{22} \Omega_{k_7 k_8 k_5 k_2}^{04} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_$$



$$T6 = \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_3 + a_4)(a_3 + a_4)a_4}$$

$$a_1 = \epsilon_{k_1}^{k_3 k_4 k_5}$$

$$a_2 = \epsilon_{k_3}^{k_6}$$

$$a_3 = \epsilon_{k_4 k_6}^{k_7 k_8}$$

$$a_4 = \epsilon_{k_2 k_5 k_7 k_8}$$

$$a_4 = \epsilon_{k_2 k_5 k_7 k_8}$$
(682)

Diagram 335:

$$PO4.335 = \lim_{\tau \to \infty} \frac{(-1)^4}{(2!)} \sum_{k_i} O_{k_1 k_2}^{20} \Omega_{k_3 k_4 k_5 k_6}^{40} \Omega_{k_7 k_3}^{11} \Omega_{k_8 k_7 k_4 k_1}^{13} \Omega_{k_8 k_7 k_6 k_2}^{14} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_3 - \tau_2) \theta$$

$$= \frac{(-1)^4}{(2!)} \sum_{k_i} \frac{O_{k_1 k_2}^{20} \Omega_{k_3 k_4 k_5 k_6}^{40} \Omega_{k_7 k_3}^{11} \Omega_{k_8 k_7 k_4 k_1}^{13} \Omega_{k_8 k_7 k_6 k_2}^{14}}{\epsilon_{k_1 k_2}}$$

$$\rightarrow T6:$$

$$T6 = \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_3 + a_4)(a_3 + a_4)a_4}$$

$$a_1 = \epsilon^{k_3 k_4 k_5 k_6}$$

$$a_2 = \epsilon^{k_7}_{k_3}$$

$$a_3 = \epsilon^{k_8}_{k_1 k_4 k_7}$$

$$a_3 = \epsilon^{k_8}_{k_1 k_4 k_7}$$

$$a_4 = \epsilon^{k_8}_{k_1 k_4 k_7}$$

$$a_5 = \epsilon^{k_7}_{k_3 k_4 k_5 k_7}$$

$$a_6 = \epsilon^{k_7}_{k_3 k_4 k_5 k_7}$$

$$a_8 = \epsilon^{k_8}_{k_1 k_4 k_7}$$

 $a_4 = \epsilon_{k_2 k_5 k_6 k_6}$

Diagram 336:

$$PO4.336 = \lim_{\tau \to \infty} -(-1)^4 \sum_{k_i} O_{k_1 k_2}^{20} \Omega_{k_3 k_4 k_5 k_1}^{31} \Omega_{k_6 k_3}^{11} \Omega_{k_7 k_6 k_4 k_2}^{13} \Omega_{k_7 k_5}^{02} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_1) \theta(\tau_4 -$$

Diagram 337:

$$PO4.337 = \lim_{\tau \to \infty} \frac{-(-1)^4}{(2!)} \sum_{k_i} O_{k_1 k_2}^{20} \Omega_{k_3 k_4 k_5 k_6}^{40} \Omega_{k_7 k_3 k_4 k_1}^{13} \Omega_{k_8 k_7 k_5 k_2}^{13} \Omega_{k_8 k_6}^{02} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_3 - \tau_2) d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_3 - \tau_2) d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_3 - \tau_2) d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_3 - \tau_2) d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_$$

$$76 = \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_3 + a_4)(a_3 + a_4)a_4}$$

$$a_1 = \epsilon^{k_3 k_4 k_5 k_6}$$

$$a_2 = \epsilon^{k_7}_{k_1 k_3 k_4}$$

$$a_3 = \epsilon^{k_8}_{k_2 k_5 k_7}$$

$$a_4 = \epsilon_{k_6 k_8}$$
(688)

Diagram 338:

$$PO4.338 = \lim_{\tau \to \infty} \frac{(-1)^4}{(2!)} \sum_{k_i} O_{k_1 k_2}^{20} \Omega_{k_3 k_4 k_5 k_1}^{31} \Omega_{k_6 k_7 k_3 k_2}^{22} \Omega_{k_6 k_7 k_3 k_4}^{13} \Omega_{k_8 k_6 t_7 k_4}^{02} \Omega_{k_8 k_5}^{15} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta$$

$$= \frac{(-1)^4}{(2!)} \sum_{k_i} \frac{O_{k_1 k_2}^{20} \Omega_{k_3 k_4 k_5 k_1}^{31} \Omega_{k_6 k_7 k_3 k_2}^{22} \Omega_{k_8 k_6 k_7 k_5}^{13} \Omega_{k_8 k_5}^{02}}{\epsilon_{k_1 k_2}} + \frac{O_{k_1 k_2}^{20} \Omega_{k_3 k_4 k_5 k_1}^{31} \Omega_{k_6 k_7 k_5}^{22} \Omega_{k_8 k_5 k_5}^{13}}{\epsilon_{k_5 k_8}}$$

$$(689)$$

$$T6 = \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_3 + a_4)(a_3 + a_4)a_4}$$

$$a_1 = \epsilon_{k_3 k_4 k_5}$$

$$a_2 = \epsilon_{k_5 k_5}^{k_6 k_7}$$

$$a_3 = \epsilon_{k_4 k_6 k_7}^{k_4 k_6}$$

$$a_4 = \epsilon_{k_5 k_5}$$

$$a_4 = \epsilon_{k_5 k_5}$$

$$a_4 = \epsilon_{k_5 k_5}$$

Diagram 339:

$$PO4.339 = \lim_{\tau \to \infty} \frac{-(-1)^4}{(2!)} \sum_{k_i} O_{k_1 k_2}^{20} \Omega_{k_3 k_4 k_5 k_1}^{31} \Omega_{k_6 k_3 k_4 k_2}^{13} \Omega_{k_7 k_6}^{11} \Omega_{k_7 k_5}^{02} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_3} d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_3} d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_3} d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_3} d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_3} d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_3} d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_3} d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_3} d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_3} d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_3} d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_3} d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_3} d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_3} d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_3} d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_3} d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_3} d\tau_4 \theta(\tau_4 - \tau_3) e^{-\tau_3} d\tau_4 \theta(\tau_4 - \tau_4) \theta(\tau_4 - \tau_3) e^{-\tau_3} d\tau_4 \theta(\tau_4 - \tau_4) \theta(\tau_4$$

$$T6 = \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_3 + a_4)(a_3 + a_4)a_4}$$

$$a_1 = \epsilon_{k_1}^{k_3 k_4 k_5}$$

$$a_2 = \epsilon_{k_2 k_3 k_4}^{k_6}$$

$$a_3 = \epsilon_{k_6}^{k_7}$$

$$a_4 = \epsilon_{k_5 k_7}$$

$$(692)$$

Diagram 340:

Diagram 341:

$$PO4.341 = \lim_{\tau \to \infty} \frac{-(-1)^4}{(2!)^2} \sum_{k_i} O_{k_1 k_2}^{20} \Omega_{k_3 k_4 k_5 k_1}^{31} \Omega_{k_6 k_7 k_3 k_4}^{22} \Omega_{k_8 k_6 k_7 k_2}^{13} \Omega_{k_8 k_6 k_7 k_2}^{02} \Omega_{k_8 k_5}^{07} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) d\tau_4 \theta(\tau_4 - \tau_4) d\tau_4 \theta$$

$$a_1 = \epsilon_{k_1}^{k_3 k_4 k_5}$$

$$a_2 = \epsilon_{k_3 k_4}^{k_6 k_7}$$

$$a_3 = \epsilon_{k_2 k_6 k_7}^{k_8}$$

$$a_4 = \epsilon_{k_5 k_8}$$

Diagram 342:

$$PO4.342 = \lim_{\tau \to \infty} \frac{(-1)^4}{(2!)^2} \sum_{k_i} O_{k_1 k_2}^{20} \Omega_{k_3 k_4 k_5 k_1}^{31} \Omega_{k_6 k_3}^{12} \Omega_{k_7 k_8 k_6 k_2}^{20} \Omega_{k_7 k_8 k_6 k_5}^{00} \int_{0}^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_3} d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_3} d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_3} d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_3} d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_3} d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_3} d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_3} d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_3} d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_3} d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_3} d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_3} d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_3} d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_3} d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_3} d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_3} d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_3} d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_3} d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_3} d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_3} d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_3} d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_3} d\tau_4 \theta(\tau_4 - \tau_4) \theta(\tau_4$$

Diagram 343:

 $a_4 = \epsilon_{k_2 k_4 k_6 k_7}$

Diagram 344:

$$PO4.344 = \lim_{\tau \to \infty} \frac{(-1)^4}{(2!)^2} \sum_{k_i} O_{k_1 k_2}^{20} \Omega_{k_3 k_4 k_5 k_6}^{40} \Omega_{k_7 k_3 k_4 k_1}^{13} \Omega_{k_8 k_7}^{11} \Omega_{k_8 k_7}^{04} \Omega_{k_8 k_3 k_6 k_2}^{40} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e$$

$$= \frac{(-1)^4}{(2!)^2} \sum_{k_i} \frac{O_{k_1 k_2}^{20} \Omega_{k_3 k_4 k_5 k_6}^{40} \Omega_{k_7 k_3 k_4 k_1}^{13} \Omega_{k_8 k_7}^{11} \Omega_{k_8 k_7 k_6 k_2}^{04}}{\epsilon_{k_1 k_2}}$$

$$\rightarrow T6:$$

$$T6 = \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_3 + a_4)(a_3 + a_4)a_4}$$

$$a_1 = \epsilon^{k_3 k_4 k_5 k_6}$$

$$a_2 = \epsilon^{k_7}_{k_1 k_3 k_4}$$

$$a_3 = \epsilon^{k_8}_{k_7}$$

$$a_1 = \epsilon^{k_8 k_8 k_8}$$

$$a_2 = \epsilon^{k_7}_{k_7 k_8 k_4}$$

$$a_3 = \epsilon^{k_8}_{k_7}$$

 $a_4 = \epsilon_{k_2 k_5 k_6 k_6}$

Diagram 345:

$$PO4.345 = \lim_{\tau \to \infty} \frac{-(-1)^4}{(2!)^2} \sum_{k_i} O_{k_1 k_2}^{20} \Omega_{k_3 k_4}^{20} \Omega_{k_5 k_6 k_3 k_1}^{22} \Omega_{k_7 k_8 k_5 k_6}^{20} \Omega_{k_7 k_8 k_5 k_6}^{04} \Omega_{k_7 k_8 k_4 k_2}^{07} \int_{0}^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) \theta(\tau_4 - \tau_3) \theta(\tau_4 - \tau_3) \theta(\tau_4 - \tau_4) \theta(\tau_4 - \tau_4)$$

Diagram 346:

$$T6 = \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_3 + a_4)(a_3 + a_4)a_4}$$

$$a_1 = \epsilon_{k_3}^{k_3 k_4 k_5}$$

$$a_2 = \epsilon_{k_3}^{k_6}$$

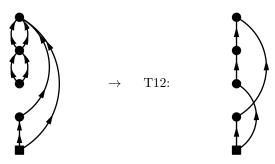
$$a_3 = \epsilon_{k_6}^{k_7}$$

$$a_4 = \epsilon_{k_2 k_4 k_5 k_7}$$

$$a_4 = \epsilon_{k_2 k_4 k_5 k_7}$$

$$(706)$$

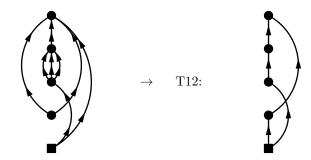
Diagram 347:



$$T12 = \frac{1}{(a_1 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_4)a_4} + \frac{1}{(a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_4)a_4} + \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_4)a_4} + \frac{1}{(a_1 + a_3 + a_4)(a_3 + a_1 + a_3 + a_4)(a_3$$

Diagram 348:

$$PO4.348 = \lim_{\tau \to \infty} \frac{(-1)^4}{(2!)(3!)} \sum_{k_i} O_{k_1 k_2}^{20} \Omega_{k_3 k_4}^{20} \Omega_{k_5 k_6 k_7 k_1}^{31} \Omega_{k_8 k_5 k_6 k_7}^{13} \Omega_{k_8 k_3 k_4 k_2}^{04} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon^{k_3 k_4}} e^{-\tau_1 \epsilon^{k_3$$



$$T12 = \frac{1}{(a_1 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_4)a_4} + \frac{1}{(a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_4)a_4} + \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_4)a_4} + \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_3 + a_4)a_4} + \frac{1}{(a_1 + a_3 + a_4)(a_3 + a_4)(a_3 + a_4)(a_3 + a_4)(a_3 + a_4)(a_3 + a_4)(a_3 + a_4)(a_4 + a_4)(a_4$$

$$u_1 = \epsilon^{k_3 k_4}$$

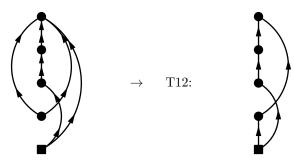
$$a_2 = \epsilon_{k_1}^{k_5 k_6 k_7}$$

$$a_3 = \epsilon_{k_5 k_6 k_7}^{k_8}$$

$$a_4 = \epsilon_{k_2 k_3 k_4 k_8}$$

Diagram 349:

$$PO4.349 = \lim_{\tau \to \infty} \frac{(-1)^4}{(2!)} \sum_{k_i} O_{k_1 k_2}^{20} \Omega_{k_3 k_4}^{20} \Omega_{k_5 k_1}^{11} \Omega_{k_6 k_5}^{11} \Omega_{k_6 k_3 k_4 k_2}^{11} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon^{k_3 k_4}} e^{-\tau_2 \epsilon_{k_1}^{k_5}} e^{-\tau_2 \epsilon_{k_1}^{k_5}} e^{-\tau_3 \epsilon_{k_1}^{k_5}} e^$$



$$T12 = \frac{1}{(a_1 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_4)a_4} + \frac{1}{(a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_4)a_4} + \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_4)(a_3 + a_4)(a_4 + a_4)(a_4$$

$$_1 = \epsilon^{k_3 k_4}$$

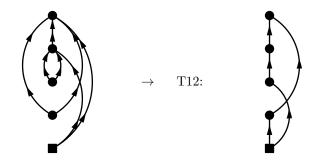
$$a_2 = \epsilon_{k_1}^{\kappa_5}$$

$$a_2 = \epsilon_{k_1}^{k_5}$$
$$a_3 = \epsilon_{k_5}^{k_6}$$

$$a_4 = \epsilon_{k_2 k_3 k_4 k_6}$$

Diagram 350:

$$PO4.350 = \lim_{\tau \to \infty} \frac{(-1)^4}{(2!)^2} \sum_{k_i} O_{k_1 k_2}^{20} \Omega_{k_3 k_4}^{20} \Omega_{k_5 k_6}^{13} \Omega_{k_7 k_5 k_6 k_1}^{13} \Omega_{k_7 k_3 k_4 k_2}^{04} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon^{k_3 k_4}} e^{-\tau_2 \epsilon^{k_3 k_4}} e^{$$



$$T12 = \frac{1}{(a_1 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_4)a_4} + \frac{1}{(a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_4)a_4} + \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_4)a_4} + \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_3 + a_4)a_4} + \frac{1}{(a_1 + a_3 + a_4)(a_3 + a_4)(a_4 + a_4)(a_4$$

$$a_1 = \epsilon^{k_3 k_4}$$

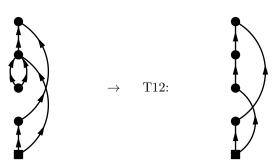
$$a_2 = \epsilon^{k_5 k_6}$$

$$a_3 = \epsilon_{k_1 k_5 k_6}^{k_7}$$

$$a_4 = \epsilon_{k_2 k_3 k_4 k_7}$$

Diagram 351:

$$PO4.351 = \lim_{\tau \to \infty} \frac{-(-1)^4}{(2!)} \sum_{k_i} O_{k_1 k_2}^{20} \Omega_{k_3 k_1}^{11} \Omega_{k_4 k_5}^{20} \Omega_{k_6 k_4 k_5 k_2}^{13} \Omega_{k_6 k_4}^{02} \Omega_{k_6 k_3}^{02} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_{k_1}^{k_3}} e^{-\tau_2 \epsilon^{k_4 k_5}} e^{-\tau_2 \epsilon^{k_4$$



$$T12 = \frac{1}{(a_1 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_4)a_4} + \frac{1}{(a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_4)a_4} + \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_4)a_4} + \frac{1}{(a_1 + a_3 + a_4)(a_3 + a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_3 + a_4)(a_3 + a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_4)(a_3 + a_4)(a_3 + a_4)(a_4 + a_$$

$$a_1 = \epsilon_{k_1}^{k_3}$$
$$a_2 = \epsilon^{k_4 k_5}$$

$$a_2 = \epsilon^{k_4 k_5}$$

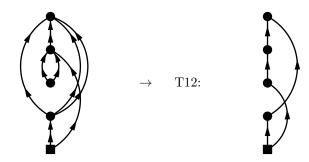
$$a_3 = \epsilon_{k_2 k_4 k_5}^{k_6}$$

$$a_4 = \epsilon_{k_3 k_6}$$

Diagram 352:

$$\begin{aligned} \text{PO4.352} &= \lim_{\tau \to \infty} \frac{-(-1)^4}{(2!)(3!)} \sum_{k_i} O_{k_1 k_2}^{20} \Omega_{k_3 k_4 k_5 k_1}^{31} \Omega_{k_6 k_7}^{20} \Omega_{k_8 k_6 k_7 k_2}^{13} \Omega_{k_8 k_6 k_7 k_2}^{04} \Omega_{k_8 k_3 k_4 k_5}^{4} \int_0^{\tau} \mathrm{d}\tau_1 \mathrm{d}\tau_2 \mathrm{d}\tau_3 \mathrm{d}\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_{k_1}^{k_3 k_4 k_5}} \\ &= \frac{-(-1)^4}{(2!)(3!)} \sum_{k_i} O_{k_1 k_2}^{20} \Omega_{k_3 k_4 k_5 k_1}^{31} \Omega_{k_6 k_7}^{20} \Omega_{k_8 k_6 k_7 k_2}^{13} \Omega_{k_8 k_3 k_4 k_5}^{04} \left[\frac{1}{\epsilon_{k_1 k_8} \epsilon_{k_1 k_2} \epsilon_{k_1 k_2 k_6 k_7}} + \frac{1}{\epsilon_{k_1 k_2 k_6 k_7} \epsilon_{k_1 k_2} \epsilon_{k_2 k_6 k_7 k_3 k_4 k_5}} \right] \end{aligned}$$

$$(717)$$



$$T12 = \frac{1}{(a_1 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_4)a_4} + \frac{1}{(a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_4)a_4} + \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_4)a_4} + \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_3 + a_4)a_4} + \frac{1}{(a_1 + a_3 + a_4)(a_3 + a_4)(a_4 + a_4)(a_4$$

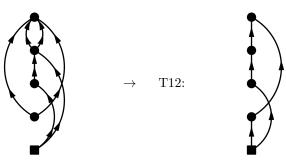
$$a_1 = \epsilon_{k_1}^{k_3 k_4 k_5}$$

$$a_2 = \epsilon_{k_6 k_7}^{k_6 k_7}$$

$$a_3 = \epsilon_{k_2 k_6 k_7}^{k_8}$$

$$a_4 = \epsilon_{k_3 k_4 k_5 k_8}$$

Diagram 353:



$$T12 = \frac{1}{(a_1 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_4)a_4} + \frac{1}{(a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_4)a_4} + \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_4)a_4} + \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_3 + a_4)a_4} + \frac{1}{(a_1 + a_3 + a_4)(a_3 + a_4)(a_4 + a_4)(a_4$$

$$a_1 = \epsilon^{k_3 k_4}$$

$$a_2 = \epsilon_{k_1}^{k_5}$$

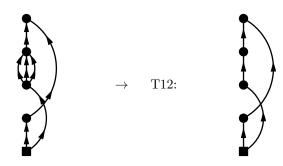
$$a_2 = \epsilon_{k_1}^{k_5}$$

$$a_3 = \epsilon_{k_2 k_5}^{k_6 k_7}$$

$$a_4 = \epsilon_{k_3 k_4 k_6 k_7}$$

Diagram 354:

$$\begin{aligned} \text{PO4.354} &= \lim_{\tau \to \infty} \frac{-(-1)^4}{(3!)} \sum_{k_i} O_{k_1 k_2}^{20} \Omega_{k_3 k_1}^{11} \Omega_{k_4 k_5 k_6 k_2}^{31} \Omega_{k_7 k_4 k_5 k_6}^{13} \Omega_{k_7 k_4}^{02} \Omega_{k_7 k_3}^{13} \int_0^{\tau} \mathrm{d}\tau_1 \mathrm{d}\tau_2 \mathrm{d}\tau_3 \mathrm{d}\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_{k_1}^{k_3}} e^{-\tau_2 \epsilon_{k_2}^{k_3}} \\ &= \frac{-(-1)^4}{(3!)} \sum_{k_i} O_{k_1 k_2}^{20} \Omega_{k_3 k_1}^{11} \Omega_{k_4 k_5 k_6 k_2}^{31} \Omega_{k_7 k_4 k_5 k_6}^{13} \Omega_{k_7 k_4}^{02} \left[\frac{1}{\epsilon_{k_1 k_7}} \frac{1}{\epsilon_{k_1 k_2}} \frac{1}{\epsilon_{k_1 k_4 k_5 k_6}} + \frac{1}{\epsilon_{k_1 k_4 k_5 k_6}} \frac{1}{\epsilon_{k_1 k_4 k_5 k_6}} \frac{1}{\epsilon_{k_1 k_4 k_5 k_6}} \frac{1}{\epsilon_{k_1 k_4 k_5 k_6}} + \frac{1}{\epsilon_{k_1 k_4 k_5 k_6}} \frac{1}{\epsilon_{k_1 k_4 k_5 k_6}} \frac{1}{\epsilon_{k_1 k_4 k_5 k_6}} \frac{1}{\epsilon_{k_1 k_4 k_5 k_6}} + \frac{1}{\epsilon_{k_1 k_4 k_5 k_6}} \frac{1}{\epsilon_{k_1 k_$$



$$T12 = \frac{1}{(a_1 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_4)a_4} + \frac{1}{(a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_4)a_4} + \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_4)(a_3 + a_4)(a_3 + a_4)(a_4 + a_4)(a_4$$

$$a_{1} = \epsilon_{k_{1}}^{k_{3}}$$

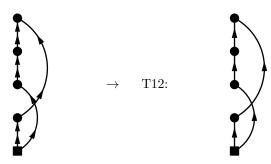
$$a_{2} = \epsilon_{k_{2}}^{k_{4}k_{5}k_{6}}$$

$$a_{3} = \epsilon_{k_{4}k_{5}k_{6}}^{k_{7}}$$

$$a_{4} = \epsilon_{k_{5}k_{6}}$$

Diagram 355:

$$PO4.355 = \lim_{\tau \to \infty} -(-1)^4 \sum_{k_i} O_{k_1 k_2}^{20} \Omega_{k_3 k_1}^{11} \Omega_{k_4 k_2}^{11} \Omega_{k_5 k_4}^{11} \Omega_{k_5 k_4}^{02} \Omega_{k_5 k_3}^{02} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_{k_1}^{k_3}} e^{-\tau_2 \epsilon_{k_2}^{k_4}} e^{-\tau_3 \epsilon_{k_4}^{k_5}} e^{-\tau_3 \epsilon_{k_5}^{k_5}} e^{-\tau_5}^{k_5}} e^{-\tau_5 \epsilon_{k_5}^{k_5}} e^{-\tau_5 \epsilon_{k_5}^{k_5}} e^{-\tau_$$



$$T12 = \frac{1}{(a_1 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_4)a_4} + \frac{1}{(a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_4)a_4} + \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_4)(a_3 + a_4)(a_4 + a_4)(a_4$$

$$a_{1} = \epsilon_{k_{1}}^{k_{3}}$$

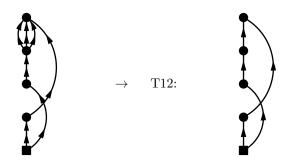
$$a_{2} = \epsilon_{k_{2}}^{k_{4}}$$

$$a_{3} = \epsilon_{k_{4}}^{k_{5}}$$

$$a_{4} = \epsilon_{k_{3}k_{5}}$$

Diagram 356:

$$PO4.356 = \lim_{\tau \to \infty} \frac{-(-1)^4}{(3!)} \sum_{k_i} O_{k_1 k_2}^{20} \Omega_{k_3 k_1}^{11} \Omega_{k_4 k_2}^{11} \Omega_{k_5 k_6 k_7 k_4}^{31} \Omega_{k_5 k_6 k_7 k_3}^{04} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_{k_1}^{k_3}} e^{-\tau_2 \epsilon_{k_2}^{k_3}} d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_{k_1}^{k_3}} e^{-\tau_2 \epsilon_{k_2}^{k_3}} d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_{k_1}^{k_3}} e^{-\tau_2 \epsilon_{k_2}^{k_3}} d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_{k_1}^{k_3}} e^{-\tau_2 \epsilon_{k_2}^{k_3}} d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_{k_1}^{k_3}} e^{-\tau_2 \epsilon_{k_2}^{k_3}} d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_{k_1}^{k_3}} e^{-\tau_2 \epsilon_{k_2}^{k_3}} d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_{k_1}^{k_3}} e^{-\tau_2 \epsilon_{k_2}^{k_3}} d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_{k_1}^{k_3}} e^{-\tau_2 \epsilon_{k_2}^{k_3}} d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_{k_1}^{k_3}} e^{-\tau_2 \epsilon_{k_2}^{k_3}} d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_{k_1}^{k_3}} e^{-\tau_2 \epsilon_{k_2}^{k_3}} d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_{k_1}^{k_3}} d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_{k_1}^{k_3}} e^{-\tau_2 \epsilon_{k_2}^{k_3}} d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_{k_1}^{k_3}} d\tau_4 \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_{k_2}^{k_3}} d\tau_4 \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_{k_2}^{k_3}$$



$$T12 = \frac{1}{(a_1 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_4)a_4} + \frac{1}{(a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_4)a_4} + \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_2 + a_$$

$$a_{1} = \epsilon_{k_{1}}^{k_{3}}$$

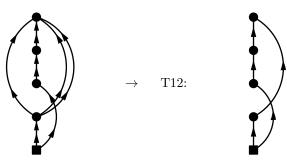
$$a_{2} = \epsilon_{k_{2}}^{k_{4}}$$

$$a_{3} = \epsilon_{k_{4}}^{k_{5}k_{6}k_{7}}$$

$$a_{4} = \epsilon_{k_{5}k_{5}k_{6}k_{7}}$$

Diagram 357:

$$PO4.357 = \lim_{\tau \to \infty} \frac{-(-1)^4}{(3!)} \sum_{k_i} O_{k_1 k_2}^{20} \Omega_{k_3 k_4 k_5 k_1}^{31} \Omega_{k_6 k_2}^{11} \Omega_{k_7 k_6}^{11} \Omega_{k_7 k_3 k_4 k_5}^{01} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_{k_1}^{k_3 k_4 k_5}} e^$$



$$T12 = \frac{1}{(a_1 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_4)a_4} + \frac{1}{(a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_4)a_4} + \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_4)(a_3 + a_4)(a_4 + a_4)(a$$

$$a_1 = \epsilon_{k_1}^{k_3 k_4 k_5}$$

$$a_2 = \epsilon_{k_2}^{k_6}$$

$$a_3 = \epsilon_{k_6}^{k_7}$$

$$a_4 = \epsilon_{k_3 k_4 k_5 k_7}$$

Diagram 358:

$$\begin{aligned} \text{PO4.358} &= \lim_{\tau \to \infty} \frac{(-1)^4}{(2!)^2} \sum_{k_i} O_{k_1 k_2}^{20} \Omega_{k_3 k_4 k_5 k_1}^{31} \Omega_{k_3 k_4}^{02} \Omega_{k_6 k_7}^{20} \Omega_{k_6 k_7 k_5 k_2}^{04} \int_0^{\tau} \mathrm{d}\tau_1 \mathrm{d}\tau_2 \mathrm{d}\tau_3 \mathrm{d}\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_{k_1}^{k_3 k_4 k_5}} e^{-\tau_2} \\ &= \frac{(-1)^4}{(2!)^2} \sum_{k_i} O_{k_1 k_2}^{20} \Omega_{k_3 k_4 k_5 k_1}^{31} \Omega_{k_3 k_4}^{02} \Omega_{k_6 k_7}^{20} \Omega_{k_6 k_7 k_5 k_2}^{04} \left[\frac{1}{\epsilon_{k_1 k_2 k_6 k_7}} \frac{1}{\epsilon_{k_3 k_4}} \frac{1}{\epsilon_{k_2 k_5 k_6 k_7}} + \frac{1}{\epsilon_{k_1 k_2}} \frac{1}{\epsilon_{k_3 k_4}} \frac{1}{\epsilon_{k_2 k_5 k_6 k_7}} \right] \end{aligned}$$

$$(729)$$

$$T9 = \frac{1}{(a_1 + a_2 + a_4)a_2(a_3 + a_1 + a_2 + a_4)a_4} + \frac{1}{(a_1 + a_2 + a_3 + a_4)a_2(a_3 + a_4)a_4}$$

$$a_1 = \epsilon_{k_3}^{k_3 k_4 k_5}$$

$$a_2 = \epsilon_{k_3 k_4}$$

$$a_3 = \epsilon_{k_6 k_7}$$

$$a_4 = \epsilon_{k_3 k_5 k_6 k_7}$$

$$a_4 = \epsilon_{k_3 k_5 k_6 k_7}$$

$$a_4 = \epsilon_{k_3 k_5 k_6 k_7}$$

$$a_5 = \epsilon_{k_5 k_5 k_6 k_7}$$

$$a_6 = \epsilon_{k_5 k_5 k_6 k_7}$$

$$a_8 = \epsilon_{k_5 k_5 k_6 k_7}$$

$$a_9 = \epsilon_{k_5 k_5 k_6 k_7}$$

Diagram 359:

$$PO4.359 = \lim_{\tau \to \infty} \frac{-(-1)^4}{(2!)} \sum_{k_i} O_{k_1 k_2}^{20} \Omega_{k_3 k_4}^{20} \Omega_{k_3 k_4}^{02} \Omega_{k_5 k_6}^{20} \Omega_{k_5 k_6}^{04} \Omega_{k_5 k_6 k_4 k_2}^{04} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon^{k_3 k_4}} e^{-\tau_2 \epsilon_{k_1 k_3}} d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon^{k_3 k_4}} e^{-\tau_2 \epsilon_{k_1 k_3}} d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon^{k_3 k_4}} e^{-\tau_2 \epsilon_{k_1 k_3}} d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon^{k_3 k_4}} e^{-\tau_2 \epsilon_{k_1 k_3}} d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon^{k_3 k_4}} e^{-\tau_2 \epsilon_{k_1 k_3}} d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon^{k_3 k_4}} e^{-\tau_2 \epsilon_{k_1 k_3}} d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon^{k_3 k_4}} e^{-\tau_2 \epsilon_{k_1 k_3}} d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon^{k_3 k_4}} e^{-\tau_2 \epsilon_{k_1 k_3}} d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon^{k_3 k_4}} e^{-\tau_2 \epsilon_{k_1 k_3}} d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon^{k_3 k_4}} e^{-\tau_2 \epsilon_{k_1 k_3}} d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon^{k_3 k_4}} e^{-\tau_2 \epsilon_{k_1 k_3}} d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon^{k_3 k_4}} d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4$$

$$T9 = \frac{1}{(a_1 + a_2 + a_4)a_2(a_3 + a_1 + a_2 + a_4)a_4} + \frac{1}{(a_1 + a_2 + a_3 + a_4)a_2(a_3 + a_4)a_4}$$

$$a_1 = \epsilon^{k_3 k_4}$$

$$a_2 = \epsilon_{k_1 k_3}$$

$$a_3 = \epsilon^{k_5 k_6}$$

$$a_4 = \epsilon_{k_2 k_4 k_5 k_6}$$

$$a_4 = \epsilon_{k_2 k_4 k_5 k_6}$$

$$(732)$$

Diagram 360:

$$\begin{aligned} \text{PO4.360} &= \lim_{\tau \to \infty} \frac{-(-1)^4}{(2!)(3!)} \sum_{k_i} O_{k_1 k_2}^{20} \Omega_{k_3 k_4 k_5 k_6}^{40} \Omega_{k_3 k_4 k_5 k_1}^{04} \Omega_{k_7 k_8}^{20} \Omega_{k_7 k_8 k_6 k_2}^{04} \int_0^{\tau} \mathrm{d}\tau_1 \mathrm{d}\tau_2 \mathrm{d}\tau_3 \mathrm{d}\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon^{k_3 k_4 k_5}} \\ &= \frac{-(-1)^4}{(2!)(3!)} \sum_{k_i} O_{k_1 k_2}^{20} \Omega_{k_3 k_4 k_5 k_6}^{40} \Omega_{k_3 k_4 k_5 k_1}^{04} \Omega_{k_7 k_8}^{20} \Omega_{k_7 k_8 k_6 k_2}^{04} \left[\frac{1}{\epsilon_{k_1 k_2 k_7 k_8}} \frac{1}{\epsilon_{k_1 k_3 k_4 k_5}} \frac{1}{\epsilon_{k_2 k_6 k_7 k_8}} + \frac{1}{\epsilon_{k_1 k_2}} \frac{1}{\epsilon_{k_1 k_3 k_4 k_5}} \frac{1}{\epsilon_{k_2 k_6 k_7 k_8}} \right] \\ &= \frac{-(-1)^4}{(2!)(3!)} \sum_{k_i} O_{k_1 k_2}^{20} \Omega_{k_3 k_4 k_5 k_6}^{40} \Omega_{k_3 k_4 k_5 k_1}^{20} \Omega_{k_7 k_8}^{20} \Omega_{k_7 k_8 k_6 k_2}^{20} \left[\frac{1}{\epsilon_{k_1 k_2 k_7 k_8}} \frac{1}{\epsilon_{k_1 k_3 k_4 k_5}} \frac{1}{\epsilon_{k_2 k_6 k_7 k_8}} \right] \\ &= \frac{-(-1)^4}{(2!)(3!)} \sum_{k_i} O_{k_1 k_2}^{20} \Omega_{k_3 k_4 k_5 k_6}^{40} \Omega_{k_3 k_4 k_5 k_1}^{20} \Omega_{k_7 k_8}^{20} \Omega_{k_7 k_8 k_6 k_2}^{20} \left[\frac{1}{\epsilon_{k_1 k_2 k_7 k_8}} \frac{1}{\epsilon_{k_1 k_3 k_4 k_5}} \frac{1}{\epsilon_{k_1$$

$$T9 = \frac{1}{(a_1 + a_2 + a_4)a_2(a_3 + a_1 + a_2 + a_4)a_4} + \frac{1}{(a_1 + a_2 + a_3 + a_4)a_2(a_3 + a_4)a_4}$$

$$a_1 = \epsilon^{k_3 k_4 k_5 k_6}$$

$$a_2 = \epsilon_{k_1 k_3 k_4 k_5}$$

$$a_3 = \epsilon^{k_7 k_8}$$

$$a_4 = \epsilon_{k_2 k_6 k_7 k_8}$$

$$a_5 = \epsilon^{k_7 k_8}$$

Diagram 361:

$$PO4.361 = \lim_{\tau \to \infty} \frac{(-1)^4}{(2!)^2} \sum_{k_i} O_{k_1 k_2}^{20} \Omega_{k_3 k_4 k_5 k_6}^{40} \Omega_{k_3 k_4}^{02} \Omega_{k_7 k_1}^{11} \Omega_{k_7 k_5 k_6 k_2}^{04} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon^{k_3 k_4 k_5 k_6}} e^{-\tau_1 \epsilon^{k_3 k_5 k_6}} e^{-\tau$$

$$T9 = \frac{1}{(a_1 + a_2 + a_4)a_2(a_3 + a_1 + a_2 + a_4)a_4} + \frac{1}{(a_1 + a_2 + a_3 + a_4)a_2(a_3 + a_4)a_4}$$

$$a_1 = \epsilon^{k_3 k_4 k_5 k_6}$$

$$a_2 = \epsilon_{k_3 k_4}$$

$$a_3 = \epsilon^{k_7}_{k_1}$$

$$a_4 = \epsilon_{k_2 k_5 k_6 k_7}$$

$$(736)$$

Diagram 362:

$$T9 = \frac{1}{(a_1 + a_2 + a_4)a_2(a_3 + a_1 + a_2 + a_4)a_4} + \frac{1}{(a_1 + a_2 + a_3 + a_4)a_2(a_3 + a_4)a_4}$$

$$a_1 = \epsilon_{k_3 k_4}^{k_3 k_4 k_5}$$

$$a_2 = \epsilon_{k_3 k_4}$$

$$a_3 = \epsilon_{k_2}^{k_6}$$

$$a_4 = \epsilon_{k_2 k_3}$$

$$a_4 = \epsilon_{k_3 k_4}$$

Diagram 363:

$$PO4.363 = \lim_{\tau \to \infty} \frac{-(-1)^4}{(2!)(3!)} \sum_{k_i} O_{k_1 k_2}^{20} \Omega_{k_3 k_4 k_5 k_1}^{31} \Omega_{k_3 k_4}^{02} \Omega_{k_6 k_7 k_8 k_2}^{31} \Omega_{k_6 k_7 k_8 k_5}^{04} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_{k_1}^{k_3 k_4 k_5}} d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_{k_1}^{k_3 k_4 k_5}} d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_{k_1}^{k_3 k_4 k_5}} d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_{k_1}^{k_3 k_4 k_5}} d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_{k_1}^{k_3 k_4 k_5}} d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_{k_1}^{k_3 k_4 k_5}} d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_{k_1}^{k_3 k_4 k_5}} d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_{k_1}^{k_3 k_4 k_5}} d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_{k_1}^{k_3 k_4 k_5}} d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_{k_1}^{k_3 k_4 k_5}} d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_{k_1}^{k_3 k_4 k_5}} d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_{k_1}^{k_3 k_4 k_5}} d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_{k_1}^{k_3 k_4 k_5}} d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_{k_1}^{k_3 k_4 k_5}} d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_4 - \tau_1) \theta($$

$$T9 = \frac{1}{(a_1 + a_2 + a_4)a_2(a_3 + a_1 + a_2 + a_4)a_4} + \frac{1}{(a_1 + a_2 + a_3 + a_4)a_2(a_3 + a_4)a_4}$$

$$a_1 = \epsilon_{k_1}^{k_3 k_4 k_5}$$

$$a_2 = \epsilon_{k_3 k_4}$$

$$a_3 = \epsilon_{k_2}^{k_6 k_7 k_8}$$

$$a_4 = \epsilon_{k_5 k_6 k_7 k_8}$$

$$a_5 = \epsilon_{k_5 k_6 k_7 k_8}$$

Diagram 364:

$$PO4.364 = \lim_{\tau \to \infty} \frac{(-1)^4}{(3!)} \sum_{k_i} O_{k_1 k_2}^{20} \Omega_{k_3 k_4 k_5 k_6}^{40} \Omega_{k_3 k_1}^{02} \Omega_{k_7 k_2}^{11} \Omega_{k_7 k_4 k_5 k_6}^{04} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon^{k_3 k_4 k_5 k_6}} e^{-\tau_1 \epsilon^{k_3 k_5 k_6}} e^{-\tau_1$$

$$T9 = \frac{1}{(a_1 + a_2 + a_4)a_2(a_3 + a_1 + a_2 + a_4)a_4} + \frac{1}{(a_1 + a_2 + a_3 + a_4)a_2(a_3 + a_4)a_4}$$

$$a_1 = \epsilon^{k_3 k_4 k_5 k_6}$$

$$a_2 = \epsilon_{k_1 k_3}$$

$$a_3 = \epsilon^{k_7}_{k_2}$$

$$a_4 = \epsilon_{k_1 k_2 k_3 k_4 k_5 k_6}$$

$$a_5 = \epsilon^{k_7}_{k_2 k_4 k_5 k_5 k_6}$$

Diagram 365:

$$PO4.365 = \lim_{\tau \to \infty} (-1)^4 \sum_{k_i} O_{k_1 k_2}^{20} \Omega_{k_3 k_4}^{20} \Omega_{k_3 k_4}^{21} \Omega_{k_5 k_2}^{11} \Omega_{k_5 k_4}^{02} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon^{k_3 k_4}} e^{-\tau_2 \epsilon_{k_1 k_3}} e^{-\tau_3 \epsilon_{k_4}^2}$$

$$= (-1)^4 \sum_{k_i} O_{k_1 k_2}^{20} \Omega_{k_3 k_4}^{20} \Omega_{k_3 k_4}^{02} \Omega_{k_5 k_4}^{11} \Omega_{k_5 k_2}^{02} \Omega_{k_5 k_4}^{20} \left[\frac{1}{\epsilon_{k_1 k_5}} \frac{1}{\epsilon_{k_1 k_3}} \frac{1}{\epsilon_{k_1 k_2}} \frac{1}{\epsilon_{k_4 k_5}} + \frac{1}{\epsilon_{k_1 k_2}} \frac{1}{\epsilon_{k_1 k_3}} \frac{1}{\epsilon_{k_2 k_4}} \frac{1}{\epsilon_{k_3 k_4}} \right]$$

$$\rightarrow T9:$$

$$T9 = \frac{1}{(a_1 + a_2 + a_4)a_2(a_3 + a_1 + a_2 + a_4)a_4} + \frac{1}{(a_1 + a_2 + a_3 + a_4)a_2(a_3 + a_4)a_4}$$

$$a_1 = \epsilon^{k_3 k_4}$$

$$a_2 = \epsilon_{k_1 k_3}$$

$$a_3 = \epsilon_{k_2}^{k_3}$$

$$a_4 = \epsilon_{k_3 k_5}$$

$$a_4 = \epsilon_{k_3 k_5}$$

Diagram 366:

$$\begin{aligned} \text{PO4.366} &= \lim_{\tau \to \infty} \frac{(-1)^4}{(3!)} \sum_{k_i} O_{k_1 k_2}^{20} \Omega_{k_3 k_4}^{20} \Omega_{k_3 k_4}^{21} \Omega_{k_5 k_6 k_7 k_2}^{31} \Omega_{k_5 k_6 k_7 k_4}^{04} \int_0^{\tau} \mathrm{d}\tau_1 \mathrm{d}\tau_2 \mathrm{d}\tau_3 \mathrm{d}\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon^{k_3 k_4}} e^{-\tau_2 \epsilon_k} \\ &= \frac{(-1)^4}{(3!)} \sum_{k_i} O_{k_1 k_2}^{20} \Omega_{k_3 k_4}^{20} \Omega_{k_3 k_4}^{02} \Omega_{k_5 k_6 k_7 k_2}^{31} \Omega_{k_5 k_6 k_7 k_4}^{04} \left[\frac{1}{\epsilon_{k_1 k_5 k_6 k_7}} \frac{1}{\epsilon_{k_1 k_5}} \frac$$

$$T9 = \frac{1}{(a_1 + a_2 + a_4)a_2(a_3 + a_1 + a_2 + a_4)a_4} + \frac{1}{(a_1 + a_2 + a_3 + a_4)a_2(a_3 + a_4)a_4}$$

$$a_1 = \epsilon^{k_3 k_4}$$

$$a_2 = \epsilon_{k_1 k_3}$$

$$a_3 = \epsilon^{k_5 k_6 k_7}_{k_2}$$

$$a_4 = \epsilon_{k_4 k_5 k_6 k_7}$$

$$a_4 = \epsilon_{k_4 k_5 k_6 k_7}$$

$$(746)$$

Diagram 367:

$$PO4.367 = \lim_{\tau \to \infty} \frac{(-1)^4}{(3!)} \sum_{k_i} O_{k_1 k_2}^{20} \Omega_{k_3 k_4 k_5 k_6}^{40} \Omega_{k_3 k_4 k_5 k_1}^{04} \Omega_{k_7 k_2}^{11} \Omega_{k_7 k_6}^{02} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon^{k_3 k_4 k_5 k_6}} e^{-\tau_1 \epsilon^{k_3 k_4 k_5 k_6}} e^{-\tau_1 \epsilon^{k_3 k_4 k_5 k_6}} \frac{1}{(3!)} \sum_{k_i} O_{k_1 k_2}^{20} \Omega_{k_3 k_4 k_5 k_6}^{40} \Omega_{k_3 k_4 k_5 k_1}^{40} \Omega_{k_7 k_2}^{11} \Omega_{k_7 k_2}^{02} \Omega_{k_7 k_6}^{20} \left[\frac{1}{\epsilon_{k_1 k_7} \epsilon_{k_1 k_3 k_4 k_5}} \frac{1}{\epsilon_{k_1 k_2} \epsilon_{k_6 k_7}} + \frac{1}{\epsilon_{k_1 k_2} \epsilon_{k_1 k_3 k_4 k_5}} \frac{1}{\epsilon_{k_2 k_6} \epsilon_{k_6 k_7}} \right]$$

$$(747)$$

$$T9 = \frac{1}{(a_1 + a_2 + a_4)a_2(a_3 + a_1 + a_2 + a_4)a_4} + \frac{1}{(a_1 + a_2 + a_3 + a_4)a_2(a_3 + a_4)a_4}$$

$$a_1 = \epsilon^{k_3 k_4 k_5 k_6}$$

$$a_2 = \epsilon_{k_1 k_3 k_4 k_5}$$

$$a_3 = \epsilon^{k_7}_{k_2}$$

$$a_4 = \epsilon_{k_6 k_7}$$

$$(748)$$

Diagram 368:

$$\begin{aligned} \text{PO4.368} &= \lim_{\tau \to \infty} \frac{(-1)^4}{(2!)^2} \sum_{k_i} O_{k_1 k_2}^{20} \Omega_{k_3 k_4 k_5 k_1}^{31} \Omega_{k_3 k_2}^{02} \Omega_{k_6 k_7}^{20} \Omega_{k_6 k_7 k_4 k_5}^{04} \int_0^{\tau} \mathrm{d}\tau_1 \mathrm{d}\tau_2 \mathrm{d}\tau_3 \mathrm{d}\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_{k_1}^{k_3 k_4 k_5}} e^{-\tau_2} \\ &= \frac{(-1)^4}{(2!)^2} \sum_{k_i} O_{k_1 k_2}^{20} \Omega_{k_3 k_4 k_5 k_1}^{31} \Omega_{k_3 k_2}^{02} \Omega_{k_6 k_7}^{20} \Omega_{k_6 k_7 k_4 k_5}^{04} \left[\frac{1}{\epsilon_{k_1 k_2 k_6 k_7}} \frac{1}{\epsilon_{k_2 k_3}} \frac{1}{\epsilon_{k_1 k_2}} \frac{1}{\epsilon_{k_4 k_5 k_6 k_7}} + \frac{1}{\epsilon_{k_1 k_2}} \frac{1}{\epsilon_{k_2 k_3}} \frac{1}{\epsilon_{k_4 k_5 k_6 k_7}} \right] \end{aligned}$$

$$T9 = \frac{1}{(a_1 + a_2 + a_4)a_2(a_3 + a_1 + a_2 + a_4)a_4} + \frac{1}{(a_1 + a_2 + a_3 + a_4)a_2(a_3 + a_4)a_4}$$

$$a_1 = \epsilon_{k_1}^{k_3 k_4 k_5}$$

$$a_2 = \epsilon_{k_2 k_3}$$

$$a_3 = \epsilon^{k_6 k_7}$$

$$a_4 = \epsilon_{k_4 k_5 k_6 k_7}$$

$$a_4 = \epsilon_{k_4 k_5 k_6 k_7}$$

$$(750)$$

Diagram 369:

$$PO4.369 = \lim_{\tau \to \infty} (-1)^4 \sum_{k_i} O_{k_1 k_2}^{20} \Omega_{k_3 k_4 k_5 k_1}^{31} \Omega_{k_3 k_2}^{02} \Omega_{k_6 k_5}^{11} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_{k_1}^{k_3 k_4 k_5}}$$

$$= (-1)^4 \sum_{k_i} \frac{O_{k_1 k_2}^{20} \Omega_{k_3 k_4 k_5 k_1}^{31} \Omega_{k_2 k_2}^{02} \Omega_{k_6 k_5}^{11} \Omega_{k_6 k_5}^{02}}{\epsilon_{k_1 k_2} \epsilon_{k_2 k_3} \epsilon_{k_4 k_5} \epsilon_{k_5 k_6}}$$

$$T5 = \frac{1}{(a_1 + a_2 + a_3 + a_4) a_2 (a_3 + a_4) a_4}$$

$$a_1 = \epsilon_{k_1}^{k_3 k_4 k_5}$$

$$a_2 = \epsilon_{k_2 k_3}$$

$$a_3 = \epsilon_{k_6}^{k_6}$$

$$a_4 = \epsilon_{k_5 k_6}$$

$$a_4 = \epsilon_{k_5 k_6}$$

$$a_4 = \epsilon_{k_5 k_6}$$

$$a_4 = \epsilon_{k_5 k_6}$$

Diagram 370:

$$T5 = \frac{1}{(a_1 + a_2 + a_3 + a_4)a_2(a_3 + a_4)a_4}$$

$$a_1 = \epsilon_{k_1}^{k_3 k_4 k_5}$$

$$a_2 = \epsilon_{k_2 k_3}$$

$$a_3 = \epsilon_{k_4}^{k_6 k_7 k_8}$$

$$a_4 = \epsilon_{k_5 k_6 k_7 k_8}$$

$$a_4 = \epsilon_{k_5 k_6 k_7 k_8}$$
(754)

Diagram 371:

$$PO4.371 = \lim_{\tau \to \infty} \frac{-(-1)^4}{(2!)^2} \sum_{k_i} O_{k_3 k_2}^{20} \Omega_{k_3 k_4}^{40} \Omega_{k_3 k_4}^{00} \Omega_{k_3 k_4}^{02} \Omega_{k_7 k_8 k_4 k_2}^{20} \Omega_{k_7 k_8 k_4 k_2}^{40} \Omega_{k_7 k_8 k_5 k_6}^{40} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_3) \theta(\tau_4 - \tau_3) \theta(\tau_4 - \tau_3) \theta(\tau_4 - \tau_4) \theta(\tau_4 - \tau_3) \theta(\tau_4 - \tau_4) \theta(\tau_4$$

Diagram 372:

$$\begin{aligned} \text{PO4.372} &= \lim_{\tau \to \infty} \frac{(-1)^4}{(2!)} \sum_{k_i} O_{k_1 k_2}^{20} \Omega_{k_3 k_4 k_5 k_6}^{40} \Omega_{k_3 k_1}^{02} \Omega_{k_7 k_4 k_5 k_2}^{13} \Omega_{k_7 k_4 k_5 k_2}^{02} \Omega_{k_7 k_6}^{02} \int_0^{\tau} \mathrm{d}\tau_1 \mathrm{d}\tau_2 \mathrm{d}\tau_3 \mathrm{d}\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_2} \\ &= \frac{(-1)^4}{(2!)} \sum_{k_i} \frac{O_{k_1 k_2}^{20} \Omega_{k_3 k_4 k_5 k_6}^{40} \Omega_{k_3 k_4 k_5 k_6}^{02} \Omega_{k_7 k_4 k_5 k_2}^{10} \Omega_{k_7 k_4}^{02} \Omega_{k_7 k_6}^{02}}{\epsilon_{k_1 k_2}} \\ &\rightarrow \qquad \text{T5:} \end{aligned}$$

$$\rightarrow \qquad \text{T5:}$$

$$\frac{1}{(a_1 + a_2 + a_3 + a_4) a_2 (a_3 + a_4) a_4}$$

$$a_1 = \epsilon^{k_3 k_4 k_5 k_6}$$

$$a_2 = \epsilon_{k_1 k_3}$$

$$a_3 = \epsilon^{k_7 k_2 k_5} \Omega_{k_7 k_6}^{02}$$

$$a_4 = \epsilon_{k_5 k_7}$$

Diagram 373:

$$PO4.373 = \lim_{\tau \to \infty} \frac{-(-1)^4}{(2!)^2} \sum_{k_i} O_{k_1 k_2}^{20} \Omega_{k_3 k_4 k_5 k_6}^{40} \Omega_{k_3 k_4}^{22} \Omega_{k_7 k_8 k_5 k_1}^{20} \Omega_{k_7 k_8 k_5 k_2}^{40} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_3) \theta(\tau_4 - \tau_3) \theta(\tau_4 - \tau_4) \theta(\tau_4 - \tau_3) \theta(\tau_4 - \tau_4) \theta$$

Diagram 374:

Diagram 375:

$$PO4.375 = \lim_{\tau \to \infty} \frac{-(-1)^4}{(2!)^2} \sum_{k_i} O_{k_1 k_2}^{20} \Omega_{k_3 k_4 k_5 k_6}^{40} \Omega_{k_3 k_1}^{02} \Omega_{k_7 k_8 k_4 k_5}^{22} \Omega_{k_7 k_8 k_6 k_2}^{04} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_3) \theta(\tau_4 - \tau_3) \theta(\tau_4 - \tau_4) \theta$$

Diagram 376:

$$PO4.376 = \lim_{\tau \to \infty} \frac{(-1)^4}{(2!)} \sum_{k_i} O_{k_1 k_2}^{20} \Omega_{k_3 k_4}^{31} \Omega_{k_3 k_4}^{02} \Omega_{k_6 k_5}^{11} \Omega_{k_6 k_5}^{02} \Omega_{k_6 k_2}^{02} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_{k_1}^{k_3 k_4 k_5}} e^{-\tau_2 \epsilon_{k_3 k_4}}$$

$$= \frac{(-1)^4}{(2!)} \sum_{k_i} \frac{O_{k_1 k_2}^{20} \Omega_{k_3 k_4 k_5 k_1}^{31} \Omega_{k_3 k_4}^{02} \Omega_{k_6 k_5}^{11} \Omega_{k_6 k_5}^{02}}{\epsilon_{k_1 k_2} \epsilon_{k_3 k_4}} \epsilon_{k_2 k_6}$$

$$765$$

$$T5 = \frac{1}{(a_1 + a_2 + a_3 + a_4) a_2 (a_3 + a_4) a_4}$$

$$a_1 = \epsilon_{k_1}^{k_3 k_4 k_5}$$

$$a_2 = \epsilon_{k_3 k_4}$$

$$a_3 = \epsilon_{k_5}^{k_5}$$

$$a_4 = \epsilon_{k_2 k_6}$$

$$a_4 = \epsilon_{k_2 k_6}$$

Diagram 377:

$$PO4.377 = \lim_{\tau \to \infty} \frac{(-1)^4}{(2!)(3!)} \sum_{k_i} O_{k_1 k_2}^{20} \Omega_{k_3 k_4 k_5 k_1}^{31} \Omega_{k_3 k_4}^{02} \Omega_{k_6 k_7 k_8 k_5}^{31} \Omega_{k_6 k_7 k_8 k_2}^{04} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_{k_1}^{k_3 k_4 k_5}}$$

$$= \frac{(-1)^4}{(2!)(3!)} \sum_{k_i} \frac{O_{k_1 k_2}^{20} \Omega_{k_3 k_4 k_5 k_1}^{31} \Omega_{k_3 k_4}^{02} \Omega_{k_6 k_7 k_8 k_5}^{31} \Omega_{k_6 k_7 k_8 k_2}^{04}}{\epsilon_{k_1 k_2}}$$

$$\to T5:$$

$$(767)$$

$$T5 = \frac{1}{(a_1 + a_2 + a_3 + a_4)a_2(a_3 + a_4)a_4}$$

$$a_1 = \epsilon_{k_3}^{k_3 k_4 k_5}$$

$$a_2 = \epsilon_{k_3 k_4}$$

$$a_3 = \epsilon_{k_5}^{k_6 k_7 k_8}$$

$$a_4 = \epsilon_{k_2 k_6 k_7 k_8}$$

$$(768)$$

Diagram 378:

$$PO4.378 = \lim_{\tau \to \infty} \frac{-(-1)^4}{(3!)} \sum_{k_i} O_{k_3 k_2}^{20} \Omega_{k_3 k_4}^{40} \Omega_{k_3 k_4}^{00} \Omega_{k_3 k_4}^{013} \Omega_{k_7 k_4 k_5 k_6}^{13} \Omega_{k_7 k_4 k_5 k_6}^{002} \Omega_{k_7 k_2}^{013} \int_{0}^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon^{k_3 k_4 k_5 k_6}} \epsilon e^{-(-1)^4} \frac{1}{(3!)} \sum_{k_i} \frac{O_{k_1 k_2}^{20} \Omega_{k_3 k_4 k_5 k_6}^{40} \Omega_{k_7 k_4 k_5 k_6}^{02} \Omega_{k_7 k_2}^{02}}{\epsilon_{k_1 k_2}} \frac{O_{k_1 k_2}^{20} \Omega_{k_3 k_4 k_5 k_6}^{40} \Omega_{k_7 k_4 k_5 k_6}^{02} \Omega_{k_7 k_2}^{02}}{\epsilon_{k_2 k_7}}$$

$$T5 = \frac{1}{(a_1 + a_2 + a_3 + a_4) a_2 (a_3 + a_4) a_4}$$

$$a_1 = \epsilon^{k_3 k_4 k_5 k_6}$$

$$a_2 = \epsilon_{k_1 k_3}$$

$$a_3 = \epsilon^{k_1 k_3}$$

$$a_3 = \epsilon^{k_1 k_3}$$

$$a_4 = \epsilon_{k_2 k_7}$$

$$a_4 = \epsilon_{k_2 k_7}$$

$$(770)$$

Diagram 379:

$$\begin{aligned} \text{PO4.379} &= \lim_{\tau \to \infty} - (-1)^4 \sum_{k_i} O_{k_1 k_2}^{20} \Omega_{k_3 k_4}^{20} \Omega_{k_3 k_4}^{02} \Omega_{k_3 k_4}^{11} \Omega_{k_5 k_2}^{02} \int_0^{\tau} \mathrm{d}\tau_1 \mathrm{d}\tau_2 \mathrm{d}\tau_3 \mathrm{d}\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon^{k_3 k_4}} e^{-\tau_2 \epsilon_{k_1 k_3}} e^{-\tau_2 \epsilon_$$

Diagram 380:

$$PO4.380 = \lim_{\tau \to \infty} \frac{-(-1)^4}{(3!)} \sum_{k_i} O_{k_1 k_2}^{20} \Omega_{k_3 k_4}^{20} \Omega_{k_3 k_4}^{20} \Omega_{k_3 k_6 k_7 k_4}^{31} \Omega_{k_5 k_6 k_7 k_2}^{04} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon^{k_3 k_4}} e^{-\tau_2}$$

$$= \frac{-(-1)^4}{(3!)} \sum_{k_i} \frac{O_{k_1 k_2}^{20} \Omega_{k_3 k_4}^{20} \Omega_{k_3 k_1}^{02} \Omega_{k_5 k_6 k_7 k_4}^{31} \Omega_{k_5 k_6 k_7 k_2}^{40}}{\epsilon_{k_1 k_2} \epsilon_{k_1 k_3} \epsilon_{k_4 k_2} \epsilon_{k_2 k_5 k_6 k_7}}$$

$$\rightarrow T5:$$

$$T5 = \frac{1}{(a_1 + a_2 + a_3 + a_4) a_2(a_3 + a_4) a_4}$$

$$a_1 = \epsilon^{k_3 k_4}$$

$$a_2 = \epsilon_{k_1 k_3}$$

$$a_3 = \epsilon^{k_5 k_6 k_7}$$

$$a_3 = \epsilon^{k_5 k_6 k_7}$$

 $a_4 = \epsilon_{k_2 k_5 k_6 k_7}$

Diagram 381:

$$PO4.381 = \lim_{\tau \to \infty} \frac{-(-1)^4}{(3!)} \sum_{k_i} O_{k_1 k_2}^{20} \Omega_{k_3 k_4 k_5 k_6}^{40} \Omega_{k_3 k_4 k_5 k_6}^{04} \Omega_{k_7 k_6}^{10} \Omega_{k_7 k_2}^{02} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon^{k_3 k_4 k_5 k_6}} e^{-$$

Diagram 382:

$$PO4.382 = \lim_{\tau \to \infty} \frac{(-1)^4}{(2!)^2} \sum_{k_i} O_{k_1 k_2}^{20} \Omega_{k_3 k_4 k_5 k_6}^{40} \Omega_{k_3 k_4}^{02} \Omega_{k_7 k_5 k_6 k_1}^{13} \Omega_{k_7 k_2}^{02} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon^{k_3 k_4 k_5 k_6}} \frac{O_{k_1 k_2}^{20} \Omega_{k_3 k_4 k_5 k_6}^{40} \Omega_{k_3 k_4 k_5 k_6}^{40} \Omega_{k_7 k_5 k_6 k_1}^{40} \Omega_{k_7 k_5}^{40}}{(2!)^2} \sum_{k_i} \frac{O_{k_1 k_2}^{20} \Omega_{k_3 k_4 k_5 k_6}^{40} \Omega_{k_3 k_4 k_5 k_6}^{40} \Omega_{k_7 k_5 k_6 k_1}^{40} \Omega_{k_7 k_5}^{40}}{\epsilon_{k_1 k_2} \epsilon_{k_3 k_4}} \epsilon_{k_1 k_5 k_6 k_2} \epsilon_{k_2 k_7}}$$

$$(777)$$

$$75 = \frac{1}{(a_1 + a_2 + a_3 + a_4)a_2(a_3 + a_4)a_4}$$

$$a_1 = \epsilon^{k_3 k_4 k_5 k_6}$$

$$a_2 = \epsilon_{k_3 k_4}$$

$$a_3 = \epsilon^{k_7}_{k_1 k_5 k_6}$$

$$a_4 = \epsilon_{k_2 k_7}$$
(778)

Diagram 383:

$$PO4.383 = \lim_{\tau \to \infty} \frac{(-1)^4}{(2!)^2} \sum_{k_i} O_{k_1 k_2}^{20} \Omega_{k_3 k_4 k_5 k_1}^{31} \Omega_{k_3 k_4}^{02} \Omega_{k_6 k_7 k_5 k_2}^{20} \Omega_{k_6 k_7}^{02} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_{k_1}^{k_3 k_4 k_5}} e^{-\tau_2}$$

$$= \frac{(-1)^4}{(2!)^2} \sum_{k_i} \frac{O_{k_1 k_2}^{20} \Omega_{k_3 k_4 k_5 k_1}^{31} \Omega_{k_3 k_4}^{02} \Omega_{k_6 k_7}^{22} \Omega_{k_6 k_7}^{02}}{\epsilon_{k_1 k_2}} \frac{O_{k_3 k_4}^{02} \Omega_{k_5 k_5 k_2}^{20} \Omega_{k_6 k_7}^{02}}{\epsilon_{k_1 k_2}} + \sum_{k_3 k_4} \frac{O_{k_3 k_4 k_5 k_5}^{02} \Omega_{k_6 k_7}^{02}}{\epsilon_{k_3 k_4 k_5 k_5 k_5 k_5}}$$

$$T5 = \frac{1}{(a_1 + a_2 + a_3 + a_4) a_2(a_3 + a_4) a_4}$$

$$a_1 = \epsilon_{k_3 k_4 k_5}^{k_3 k_4 k_5}$$

$$a_2 = \epsilon_{k_3 k_4}$$

$$a_3 = \epsilon_{k_2 k_5}^{k_6 k_7}$$

$$a_3 = \epsilon_{k_2 k_5}^{k_6 k_7}$$

Diagram 384:

$$PO4.384 = \lim_{\tau \to \infty} \frac{-(-1)^4}{(2!)} \sum_{k_i} O_{k_1 k_2}^{20} \Omega_{k_3 k_4}^{20} \Omega_{k_3 k_1}^{22} \Omega_{k_5 k_6 k_4 k_2}^{22} \Omega_{k_5 k_6}^{02} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon^{k_3 k_4}} e^{-\tau_2 \epsilon_{k_1 k_3}} d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon^{k_3 k_4}} e^{-\tau_2 \epsilon_{k_1 k_3}} d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon^{k_3 k_4}} e^{-\tau_2 \epsilon_{k_1 k_3}} d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon^{k_3 k_4}} e^{-\tau_2 \epsilon_{k_1 k_3}} d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon^{k_3 k_4}} e^{-\tau_2 \epsilon_{k_1 k_3}} d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon^{k_3 k_4}} e^{-\tau_2 \epsilon_{k_1 k_3}} d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon^{k_3 k_4}} e^{-\tau_2 \epsilon_{k_1 k_3}} d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon^{k_3 k_4}} e^{-\tau_2 \epsilon_{k_1 k_3}} d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon^{k_3 k_4}} e^{-\tau_2 \epsilon_{k_1 k_3}} d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon^{k_3 k_4}} e^{-\tau_2 \epsilon_{k_1 k_3}} d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon^{k_3 k_4}} e^{-\tau_2 \epsilon_{k_1 k_3}} d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon^{k_3 k_4}} e^{-\tau_2 \epsilon_{k_1 k_3}} d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon^{k_3 k_4}} e^{-\tau_2 \epsilon_{k_1 k_3}} d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon^{k_3 k_4}} d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4$$

$$T5 = \frac{1}{(a_1 + a_2 + a_3 + a_4)a_2(a_3 + a_4)a_4}$$

$$a_1 = \epsilon^{k_3 k_4}$$

$$a_2 = \epsilon_{k_1 k_3}$$

$$a_3 = \epsilon^{k_5 k_6}_{k_2 k_4}$$

$$a_4 = \epsilon_{k_5 k_6}$$

$$a_4 = \epsilon_{k_5 k_6}$$
(782)

Diagram 385:

$$PO4.385 = \lim_{\tau \to \infty} \frac{-(-1)^4}{(2!)(3!)} \sum_{k_i} O_{k_1 k_2}^{20} \Omega_{k_3 k_4 k_5 k_6}^{40} \Omega_{k_3 k_4 k_5 k_1}^{02} \Omega_{k_7 k_8 k_6 k_2}^{20} \Omega_{k_7 k_8}^{02} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon^{k_3 k_4 k_5}}$$

$$= \frac{-(-1)^4}{(2!)(3!)} \sum_{k_i} \frac{O_{k_1 k_2}^{20} \Omega_{k_3 k_4 k_5 k_6}^{40} \Omega_{k_3 k_4 k_5 k_1}^{02} \Omega_{k_7 k_8 k_6 k_2}^{22} \Omega_{k_7 k_8}^{02}}{\epsilon_{k_1 k_2} \epsilon_{k_1 k_3 k_4 k_5} \epsilon_{k_2 k_6} \epsilon_{k_7 k_8}}$$

$$\rightarrow T5:$$

$$T5 = \frac{1}{(a_1 + a_2 + a_3 + a_4) a_2 (a_3 + a_4) a_4}$$

$$a_1 = \epsilon^{k_3 k_4 k_5 k_6}$$

$$a_2 = \epsilon_{k_1 k_3 k_4 k_5}$$

$$a_3 = \epsilon^{k_7 k_8}_{k_2 k_6}$$

$$a_4 = \epsilon_{k_8 k_8}$$

$$a_4 = \epsilon_{k_8 k_8}$$

$$a_4 = \epsilon_{k_8 k_8}$$

Diagram 386:

$$PO4.386 = \lim_{\tau \to \infty} \frac{(-1)^4}{(2!)^2} \sum_{k_i} O_{k_1 k_2}^{20} \Omega_{k_3 k_4 k_5 k_1}^{31} \Omega_{k_3 k_2}^{02} \Omega_{k_6 k_7 k_4 k_5}^{22} \Omega_{k_6 k_7}^{02} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_{k_1}^{k_3 k_4 k_5}} e^{-\tau_2}$$

$$= \frac{(-1)^4}{(2!)^2} \sum_{k_i} \frac{O_{k_1 k_2}^{20} \Omega_{k_3 k_4 k_5 k_1}^{31} \Omega_{k_3 k_2}^{02} \Omega_{k_6 k_7 k_4 k_5}^{22} \Omega_{k_6 k_7}^{22}}{\epsilon_{k_1 k_2} \epsilon_{k_2 k_3} \epsilon_{k_4 k_5} \epsilon_{k_6 k_7}}$$

$$\rightarrow T5:$$

$$T5 = \frac{1}{(a_1 + a_2 + a_3 + a_4) a_2 (a_3 + a_4) a_4}$$

$$a_1 = \epsilon_{k_1}^{k_3 k_4 k_5}$$

$$a_2 = \epsilon_{k_2 k_3}$$

$$a_3 = \epsilon_{k_4 k_5}^{k_6 k_7}$$

$$a_4 = \epsilon_{k_6 k_7}$$

$$a_4 = \epsilon_{k_6 k_7}$$

$$a_4 = \epsilon_{k_6 k_7}$$

Diagram 387:

Diagram 388:

$$PO4.388 = \lim_{\tau \to \infty} \frac{-(-1)^4}{2} \sum_{k_i} O_{k_1 k_2 k_3 k_4}^{40} \Omega_{k_1 k_1}^{11} \Omega_{k_6 k_7 k_5 k_2}^{22} \Omega_{k_6 k_3}^{02} \Omega_{k_7 k_4}^{02} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_2) e^{-\tau_1 \epsilon_{k_1}^{k_5}} e^{-\tau_2 \epsilon_{k_1}^{k_5}} e^{-\tau_2 \epsilon_{k_2}^{k_5}}$$

$$= \frac{-(-1)^4}{2} \sum_{k_i} \frac{O_{k_1 k_2 k_3 k_4}^{40} \Omega_{k_5 k_1}^{11} \Omega_{k_6 k_7 k_5 k_2}^{22} \Omega_{k_6 k_3}^{02} \Omega_{k_7 k_4}^{02}}{\epsilon_{k_1 k_2 k_3 k_4} \epsilon_{k_2 k_5 k_3 k_4} \epsilon_{k_2 k_5 k_3 k_4} \epsilon_{k_3 k_6} \epsilon_{k_4 k_7}}$$

$$\rightarrow T7:$$

$$T7 = \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_3 + a_4)a_3 a_4}$$

$$a_1 = \epsilon_{k_1}^{k_5}$$

$$a_2 = \epsilon_{k_2 k_5}^{k_6 k_7}$$

$$a_3 = \epsilon_{k_3 k_6}$$

$$a_3 = \epsilon_{k_3 k_6}$$

$$a_4 = \epsilon_{k_3 k_6}$$

$$a_4 = \epsilon_{k_3 k_6}$$

Diagram 389:

$$PO4.389 = \lim_{\tau \to \infty} \frac{-(-1)^4}{(2!)} \sum_{k_i} O_{k_1 k_2 k_3 k_4}^{40} \Omega_{k_5 k_6 k_7 k_1}^{31} \Omega_{k_8 k_9 k_5 k_2}^{22} \Omega_{k_8 k_3}^{02} \Omega_{k_9 k_6 k_7 k_4}^{04} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_1) \theta(\tau_1) \theta(\tau_1) \theta(\tau_1)$$

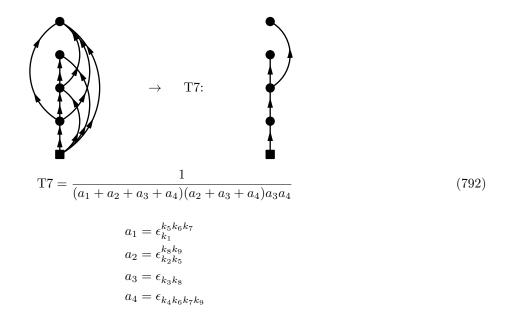
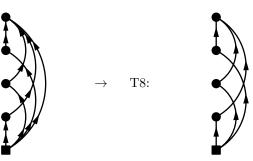


Diagram 390:



$$T8 = \frac{1}{(a_1 + a_2 + a_4)(a_2 + a_4)(a_3 + a_1 + a_2 + a_4)a_4} + \frac{1}{(a_1 + a_4)(a_2 + a_1 + a_4)(a_3 + a_1 + a_2 + a_4)a_4} + \frac{1}{(a_1 + a_4)(a_2 + a_1 + a_4)(a_3 + a_1 + a_2 + a_4)a_4} + \frac{1}{(a_1 + a_4)(a_2 + a_1 + a_4)(a_3 + a_1 + a_2 + a_4)a_4} + \frac{1}{(a_1 + a_4)(a_2 + a_1 + a_4)(a_3 + a_1 + a_2 + a_4)a_4} + \frac{1}{(a_1 + a_4)(a_2 + a_1 + a_4)(a_3 + a_1 + a_2 + a_4)a_4} + \frac{1}{(a_1 + a_4)(a_2 + a_1 + a_4)(a_3 + a_1 + a_2 + a_4)a_4} + \frac{1}{(a_1 + a_4)(a_2 + a_1 + a_4)(a_3 + a_1 + a_2 + a_4)a_4} + \frac{1}{(a_1 + a_4)(a_2 + a_1 + a_4)(a_3 + a_1 + a_2 + a_4)a_4} + \frac{1}{(a_1 + a_4)(a_2 + a_1 + a_4)(a_3 + a_1 + a_2 + a_4)a_4} + \frac{1}{(a_1 + a_4)(a_2 + a_1 + a_4)(a_3 + a_1 + a_2 + a_4)a_4} + \frac{1}{(a_1 + a_4)(a_2 + a_1 + a_4)(a_3 + a_1 + a_2 + a_4)a_4} + \frac{1}{(a_1 + a_4)(a_2 + a_1 + a_4)(a_3 + a_1 + a_2 + a_4)a_4} + \frac{1}{(a_1 + a_4)(a_2 + a_1 + a_4)(a_3 + a_1 + a_2 + a_4)a_4} + \frac{1}{(a_1 + a_4)(a_2 + a_1 + a_4)(a_3 + a_1 + a_2 + a_4)a_4} + \frac{1}{(a_1 + a_4)(a_2 + a_1 + a_4)(a_3 + a_1 + a_2 + a_4)a_4} + \frac{1}{(a_1 + a_4)(a_2 + a_1 + a_4)(a_3 + a_1 + a_2 + a_4)a_4} + \frac{1}{(a_1 + a_4)(a_2 + a_1 + a_2 + a_4)a_4} + \frac{1}{(a_1 + a_4)(a_2 + a_1 + a_2 + a_4)a_4} + \frac{1}{(a_1 + a_4)(a_2 + a_1 + a_2 + a_4)a_4} + \frac{1}{(a_1 + a_4)(a_2 + a_1 + a_2 + a_4)a_4} + \frac{1}{(a_1 + a_4)(a_2 + a_1 + a_2 + a_4)a_4} + \frac{1}{(a_1 + a_4)(a_2 + a_1 + a_2 + a_4)a_4} + \frac{1}{(a_1 + a_4)(a_2 + a_1 + a_2 + a_4)a_4} + \frac{1}{(a_1 + a_4)(a_2 + a_1 + a_2 + a_4)a_4} + \frac{1}{(a_1 + a_4)(a_2 + a_4)(a_3 + a_4)(a_4 + a_4)($$

$$a_{1} = \epsilon_{k_{1}}^{k_{5}}$$

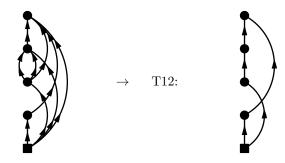
$$a_{2} = \epsilon_{k_{2}}^{k_{6}}$$

$$a_{3} = \epsilon_{k_{3}}^{k_{7}}$$

$$a_{4} = \epsilon_{k_{4}k_{5}k_{6}k_{7}}$$

Diagram 391:

$$PO4.391 = \lim_{\tau \to \infty} \frac{-(-1)^4}{(2!)} \sum_{k_i} O_{k_1 k_2 k_3 k_4}^{40} \Omega_{k_5 k_1}^{11} \Omega_{k_6 k_7 k_8 k_2}^{31} \Omega_{k_9 k_6 k_7 k_3}^{13} \Omega_{k_9 k_8 k_5 k_4}^{04} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 -$$



$$T12 = \frac{1}{(a_1 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_4)a_4} + \frac{1}{(a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_4)a_4} + \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_4)a_4} + \frac{1}{(a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_4)a_4} + \frac{1}{(a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_4)(a_3 + a_4)(a_4 + a$$

$$a_{1} = \epsilon_{k_{1}}^{k_{5}}$$

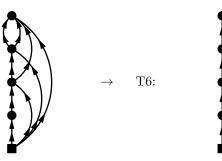
$$a_{2} = \epsilon_{k_{2}}^{k_{6}k_{7}k_{8}}$$

$$a_{3} = \epsilon_{k_{3}k_{6}k_{7}}^{k_{9}}$$

$$a_{4} = \epsilon_{k_{4}k_{5}k_{8}k_{6}}$$

Diagram 392:

$$PO4.392 = \lim_{\tau \to \infty} \frac{-(-1)^4}{(2!)} \sum_{k_i} O_{k_1 k_2 k_3 k_4}^{40} \Omega_{k_5 k_1}^{11} \Omega_{k_6 k_7 k_5 k_2}^{22} \Omega_{k_8 k_9 k_6 k_3}^{22} \Omega_{k_8 k_9 k_7 k_4}^{40} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 -$$



$$T6 = \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_3 + a_4)(a_3 + a_4)a_4}$$
 (798)

$$a_{1} = \epsilon_{k_{1}}^{k_{5}}$$

$$a_{2} = \epsilon_{k_{2}k_{5}}^{k_{6}k_{7}}$$

$$a_{3} = \epsilon_{k_{3}k_{6}}^{k_{8}k_{9}}$$

$$a_{4} = \epsilon_{k_{4}k_{7}k}$$

Diagram 393:

$$PO4.393 = \lim_{\tau \to \infty} \frac{(-1)^4}{(2!)} \sum_{k_i} O_{k_1 k_2 k_3 k_4}^{40} \Omega_{k_5 k_1}^{11} \Omega_{k_6 k_7 k_5 k_2}^{22} \Omega_{k_8 k_6 k_7 k_3}^{13} \Omega_{k_8 k_4}^{02} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_{k_1}^{k_5}} e^{-\tau_2} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_{k_1}^{k_5}} e^{-\tau_2} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_{k_1}^{k_5}} e^{-\tau_2} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_{k_1}^{k_5}} e^{-\tau_2} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_{k_1}^{k_5}} e^{-\tau_2} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_{k_1}^{k_5}} e^{-\tau_2} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_{k_1}^{k_5}} e^{-\tau_2} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_{k_1}^{k_5}} e^{-\tau_2} d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_2) \theta$$

$$T6 = \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_3 + a_4)(a_3 + a_4)a_4}$$

$$a_1 = \epsilon_{k_1}^{k_5}$$

$$a_2 = \epsilon_{k_2 k_5}^{k_6 k_7}$$

$$a_3 = \epsilon_{k_3 k_6 k_7}^{k_8}$$

$$a_4 = \epsilon_{k_4 k_8}$$

$$a_4 = \epsilon_{k_4 k_8}$$

$$a_5 = \epsilon_{k_5 k_8 k_8}^{k_8 k_8}$$

$$a_6 = \epsilon_{k_5 k_8 k_8}^{k_8 k_8}$$

$$a_8 = \epsilon_{k_5 k_8 k_8}^{k_8 k_8}$$

Diagram 394:

$$PO4.394 = \lim_{\tau \to \infty} \frac{-(-1)^4}{(2!)} \sum_{k_i} O_{k_1 k_2 k_3 k_4}^{40} \Omega_{k_5 k_6 k_7 k_1}^{31} \Omega_{k_8 k_5 k_6 k_2}^{13} \Omega_{k_9 k_8 k_7 k_3}^{13} \Omega_{k_9 k_8}^{02} \int_{0}^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_2) \theta(\tau_4$$

$$T6 = \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_3 + a_4)(a_3 + a_4)a_4}$$

$$a_1 = \epsilon_{k_1}^{k_5 k_6 k_7}$$

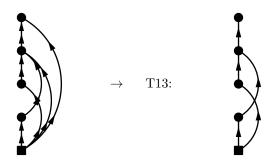
$$a_2 = \epsilon_{k_2 k_5 k_6}^{k_8}$$

$$a_3 = \epsilon_{k_3 k_7 k_8}^{k_9}$$

$$a_4 = \epsilon_{k_4 k_9}$$

$$(802)$$

Diagram 395:



$$T13 = \frac{1}{(a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_4)a_4} + \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_3 + a_4)(a_3 + a_4)a_4}$$
(804)

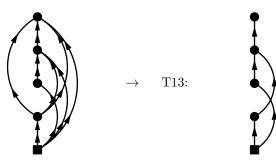
$$a_1 = \epsilon_{k_1}^{k_5}$$
$$a_2 = \epsilon_{k_2}^{k_6}$$

$$a_3 = \epsilon_{k_3 k_5 k_6}^{k_7}$$

$$a_4 = \epsilon_{k_4 k_7}$$

Diagram 396:

$$PO4.396 = \lim_{\tau \to \infty} \frac{-(-1)^4}{(2!)} \sum_{k_i} O_{k_1 k_2 k_3 k_4}^{40} \Omega_{k_5 k_6 k_7 k_1}^{31} \Omega_{k_8 k_2}^{11} \Omega_{k_8 k_2}^{13} \Omega_{k_9 k_8 k_5 k_3}^{04} \Omega_{k_9 k_6 k_7 k_4}^{07} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_1) \theta(\tau_$$



$$T13 = \frac{1}{(a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_4)a_4} + \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_3 + a_4)(a_3 + a_4)a_4}$$
(806)

$$a_{1} = \epsilon_{k_{1}}^{k_{5}k_{6}k_{7}}$$

$$a_{2} = \epsilon_{k_{2}}^{k_{8}}$$

$$a_{3} = \epsilon_{k_{3}k_{5}k_{8}}^{k_{9}}$$

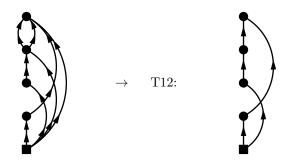
$$a_2 = \epsilon_{k_2}^{k_8}$$

$$a_3 = \epsilon_{k_3 k_5 k_8}^{k_9}$$

$$a_4 = \epsilon_{k_4 k_6 k_7 k_9}$$

Diagram 397:

$$PO4.397 = \lim_{\tau \to \infty} \frac{(-1)^4}{(2!)} \sum_{k_i} O_{k_1 k_2 k_3 k_4}^{40} \Omega_{k_5 k_1}^{11} \Omega_{k_6 k_2}^{11} \Omega_{k_7 k_8 k_6 k_3}^{12} \Omega_{k_7 k_8 k_6 k_3}^{04} \Omega_{k_7 k_8 k_5 k_4}^{04} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_{k_1}^{k_5}} e^{-\tau_2} d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_{k_1}^{k_5}} e^{-\tau_2} d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_{k_1}^{k_5}} e^{-\tau_2} d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_{k_1}^{k_5}} e^{-\tau_2} d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_{k_1}^{k_5}} e^{-\tau_2} d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_{k_1}^{k_5}} e^{-\tau_2} d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_{k_1}^{k_5}} e^{-\tau_2} d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_{k_1}^{k_5}} e^{-\tau_2} d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_{k_1}^{k_5}} e^{-\tau_2} d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_{k_1}^{k_5}} e^{-\tau_2} d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_{k_1}^{k_5}} e^{-\tau_2} d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_{k_1}^{k_5}} e^{-\tau_2} d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_{k_1}^{k_5}} e^{-\tau_2} d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_{k_1}^{k_5}} e^{-\tau_2} d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_{k_1}^{k_5}} e^{-\tau_2} d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_{k_1}^{k_5}} e^{-\tau_2} d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_{k_1}^{k_5}} e^{-\tau_2} d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_{k_1}^{k_5}} e^{-\tau_2} d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_{k_1}^{k_5}} e^{-\tau_2} d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_$$



$$T12 = \frac{1}{(a_1 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_4)a_4} + \frac{1}{(a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_4)a_4} + \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_4)a_4} + \frac{1}{(a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_4)a_4} + \frac{1}{(a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_4)(a_3 + a_4)(a_4 + a$$

Diagram 398:

$$PO4.398 = \lim_{\tau \to \infty} \frac{(-1)^4}{(2!)} \sum_{k_i} O_{k_1 k_2 k_3 k_4}^{40} \Omega_{k_5 k_6 k_7 k_1}^{31} \Omega_{k_5 k_2}^{02} \Omega_{k_8 k_3}^{11} \Omega_{k_8 k_6 k_7 k_4}^{04} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_{k_1}^{k_5 k_6 k_7} \epsilon_4} e^{-\tau_1 \epsilon_{k_1}^{k_5 k_6 k_7} \epsilon_5} e^{-$$

$$T9 = \frac{1}{(a_1 + a_2 + a_4)a_2(a_3 + a_1 + a_2 + a_4)a_4} + \frac{1}{(a_1 + a_2 + a_3 + a_4)a_2(a_3 + a_4)a_4}$$

$$a_1 = \epsilon_{k_1}^{k_5 k_6 k_7}$$

$$a_2 = \epsilon_{k_2 k_5}$$

$$a_3 = \epsilon_{k_3}^{k_8}$$

$$a_4 = \epsilon_{k_4 k_6 k_7 k_8}$$

$$(810)$$

Diagram 399:

$$PO4.399 = \lim_{\tau \to \infty} \frac{-(-1)^4}{(2!)} \sum_{k_i} O_{k_1 k_2 k_3 k_4}^{40} \Omega_{k_5 k_6 k_7 k_1}^{31} \Omega_{k_5 k_2}^{02} \Omega_{k_8 k_9 k_6 k_3}^{22} \Omega_{k_8 k_9 k_7 k_4}^{04} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_4 -$$

$$T5 = \frac{1}{(a_1 + a_2 + a_3 + a_4)a_2(a_3 + a_4)a_4}$$

$$a_1 = \epsilon_{k_5 k_6 k_7}^{k_5 k_6 k_7}$$

$$a_2 = \epsilon_{k_2 k_5}$$

$$a_3 = \epsilon_{k_3 k_6}^{k_8 k_9}$$

$$a_4 = \epsilon_{k_4 k_7 k_8 k_9}$$

$$(812)$$

Diagram 400:

$$PO4.400 = \lim_{\tau \to \infty} \frac{(-1)^4}{(2!)} \sum_{k_i} O_{k_1 k_2 k_3 k_4}^{40} \Omega_{k_5 k_6 k_7 k_1}^{31} \Omega_{k_5 k_2}^{02} \Omega_{k_5 k_6 k_7 k_3}^{13} \Omega_{k_5 k_4}^{02} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_{k_5}^{k_5 k_6 k_7} \epsilon_4} e^{-\tau_1 \epsilon_{k_5}^{k_5 k_6 k_7} \epsilon_5} e^{-$$

Diagram 401:

$$PO4.401 = \lim_{\tau \to \infty} \frac{(-1)^4}{2} \sum_{k_i} O_{k_1 k_2 k_3 k_4}^{40} \Omega_{k_5 k_1}^{11} \Omega_{k_5 k_2}^{02} \Omega_{k_6 k_3}^{11} \Omega_{k_6 k_4}^{02} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_{k_1}^{k_5}} e^{-\tau_2 \epsilon_{k_2 k_5}} e^{-\tau_3 \epsilon_{k_3}^{k_6}} e^{-\tau_4 \epsilon_{k_4}} e^{-\tau_4 \epsilon_{k_5}} e^{-\tau_4 \epsilon_{k_5}} e^{-\tau_4 \epsilon_{k_5}} e^{-\tau_5 \epsilon_{k_5}^{k_5}} e^{-\tau_5 \epsilon_{k_5}^{k_$$

$$T4 = \frac{1}{(a_1 + a_2)a_2(a_3 + a_4)a_4}$$

$$a_1 = \epsilon_{k_1}^{k_5}$$

$$a_2 = \epsilon_{k_2 k_5}$$

$$a_3 = \epsilon_{k_3}^{k_6}$$

$$a_4 = \epsilon_{k_1 k_2}$$
(816)

Diagram 402:

$$PO4.402 = \lim_{\tau \to \infty} \frac{(-1)^4}{(3!)} \sum_{k_i} O_{k_1 k_2 k_3 k_4}^{40} \Omega_{k_5 k_1}^{11} \Omega_{k_5 k_2}^{02} \Omega_{k_6 k_7 k_8 k_3}^{31} \Omega_{k_6 k_7 k_8 k_4}^{04} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_{k_1}^{k_5}} e^{-\tau_2 \epsilon_{k_2 k_5}} e^{-\tau_3 \epsilon_{k_2 k_5}} e^{-\tau_3$$

Diagram 403:

$$PO4.403 = \lim_{\tau \to \infty} \frac{-(-1)^4}{2(2!)^2} \sum_{k_i} O_{k_1 k_2 k_3 k_4}^{40} \Omega_{k_5 k_6 k_7 k_8}^{40} \Omega_{k_5 k_7}^{02} \Omega_{k_6 k_7 k_2 k_3}^{40} \Omega_{k_5 k_4}^{02} \Omega_{k_8 k_4}^{02} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_1) e^{-\tau_1 \epsilon^{k_5 k_6 k_6 k_7 k_8}}$$

$$= \frac{-(-1)^4}{2(2!)^2} \sum_{k_i} \frac{O_{k_1 k_2 k_3 k_4}^{40} \Omega_{k_5 k_7 k_8}^{40} \Omega_{k_5 k_7 k_2 k_3}^{02} \Omega_{k_5 k_7 k_2 k_3}^{02} \Omega_{k_5 k_7 k_5 k_6 k_4 k_8}^{02}$$

$$\rightarrow T3:$$

$$T3 = \frac{1}{(a_1 + a_2 + a_3 + a_4) a_2 a_3 a_4}$$

$$a_1 = \epsilon^{k_5 k_6 k_7 k_8}$$

$$a_2 = \epsilon_{k_1 k_5}$$

$$a_3 = \epsilon_{k_2 k_3 k_6 k_7}$$

$$a_4 = \epsilon_{k_4 k_8}$$

$$a_4 = \epsilon_{k_4 k_8}$$

$$a_4 = \epsilon_{k_4 k_8}$$

$$a_4 = \epsilon_{k_4 k_8}$$

Diagram 404:

$$PO4.404 = \lim_{\tau \to \infty} \frac{-(-1)^4}{2(2!)} \sum_{k_i} O_{k_1 k_2 k_3 k_4}^{40} \Omega_{k_1 k_2}^{02} \Omega_{k_5 k_6}^{20} \Omega_{k_5 k_3}^{02} \Omega_{k_6 k_4}^{02} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_2) e^{-\tau_1 \epsilon_{k_1 k_2}} e^{-\tau_2 \epsilon^{k_5 k_6}} e^{-\tau_3 \epsilon_{k_3 k_5}} \Omega_{k_5 k_5}^{02} \Omega_{k_5 k_5}^{02} \Omega_{k_5 k_5}^{02} \Omega_{k_6 k_4}^{02}$$

$$= \frac{-(-1)^4}{2(2!)} \sum_{k_i} \frac{O_{k_1 k_2 k_3 k_4}^{40} \Omega_{k_5 k_5}^{02} \Omega_{k_5 k_5}^{02} \Omega_{k_6 k_4}^{02}}{\epsilon_{k_1 k_2}} \frac{O_{k_5 k_5}^{00} \Omega_{k_5 k_5}^{02} \Omega_{k_6 k_4}^{02}}{\epsilon_{k_3 k_4} \epsilon_{k_3 k_5}}$$

$$\Rightarrow T2:$$

$$T2 = \frac{1}{a_1(a_2 + a_3 + a_4)a_3 a_4}$$

$$a_1 = \epsilon_{k_1 k_2}$$

$$a_2 = \epsilon^{k_5 k_6}$$

$$a_3 = \epsilon_{k_5 k_5}$$

$$a_3 = \epsilon_{k_5 k_5}$$

 $a_4 = \epsilon_{k_4 k_6}$

Diagram 405:

$$PO4.405 = \lim_{\tau \to \infty} \frac{-(-1)^4}{(2!)(3!)} \sum_{k_i} O_{k_1 k_2 k_3 k_4}^{40} \Omega_{k_1 k_2}^{02} \Omega_{k_5 k_6 k_7 k_8}^{40} \Omega_{k_5 k_5}^{02} \Omega_{k_6 k_7 k_8 k_4}^{40} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_2) e^{-\tau_1 \epsilon_{k_1 k_2}} e^{-\tau_2 \epsilon^{k_5 k_6 k_7}}$$

$$= \frac{-(-1)^4}{(2!)(3!)} \sum_{k_i} \frac{O_{k_1 k_2 k_3 k_4}^{40} \Omega_{k_1 k_2}^{02} \Omega_{k_5 k_6 k_7 k_8}^{40} \Omega_{k_5 k_5}^{02} \Omega_{k_6 k_7 k_8}^{04}}{\epsilon_{k_1 k_2} \epsilon_{k_3 k_4} \epsilon_{k_3 k_5} \epsilon_{k_4 k_6 k_7 k_8}}$$

$$+ T2:$$

$$= \frac{1}{a_1 (a_2 + a_3 + a_4) a_3 a_4}$$

$$= \frac{1}{a_1 (a_2 + a_3 + a_4) a_3 a_4}$$

$$= \frac{1}{a_1 (a_2 + a_3 + a_4) a_3 a_4}$$

$$= \frac{1}{a_1 (a_2 + a_3 + a_4) a_3 a_4}$$

$$= \frac{1}{a_1 (a_2 + a_3 + a_4) a_3 a_4}$$

$$= \frac{1}{a_1 (a_2 + a_3 + a_4) a_3 a_4}$$

$$= \frac{1}{a_1 (a_2 + a_3 + a_4) a_3 a_4}$$

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$$= \frac{1}{a_1 (a_2 + a_3 + a_4) a_3 a_4}$$

$$= \frac{1}{a_1 (a_2 + a_3 + a_4) a_3 a_4}$$

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$$= \frac{1}{a_1 (a_2 + a_3 + a_4) a_3 a_4}$$

$$= \frac{1}{a_1 (a_2 + a_3 + a_4) a_3 a_4}$$

$$= \frac{1}{a_1 (a_2 + a_3 + a_4) a_3 a_4}$$

$$= \frac{1}{a_1 (a_2 + a_3 + a_4) a_3 a_4}$$

$$= \frac{1}{a_1 (a_2 + a_3 + a_4) a_3 a_4}$$

$$= \frac{1}{a_1 (a_2 + a_3 + a_4) a_3 a_4}$$

$$= \frac{1}{a_1 (a_2 + a_3 + a_4) a_3 a_4}$$

$$= \frac{1}{a_1 (a_2 + a_3 + a_4) a_3 a_4}$$

$$= \frac{1}{a_1 (a_2 + a_3 + a_4) a_3 a_4}$$

$$= \frac{1}{a_1 (a_2 + a_3 + a_4) a_3 a_4}$$

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$$= \frac{1}{a_1 (a_2 + a_3 + a_4) a_3 a_4}$$

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$$= \frac{1}{a_1 (a_2 + a_3 + a_4) a_3 a_4}$$

$$= \frac{1}{a_1 (a_2 + a_3 + a_4) a_3 a_4}$$

$$= \frac{1}{a_1 (a_2 + a_3 + a_4) a_3 a_4}$$

$$= \frac{1}{a_1 (a_2 + a_3 + a_4) a_3 a_4}$$

$$= \frac{1}{a_1 (a_2 + a_3 + a_4) a_3 a_4}$$

$$= \frac{1}{a_1 (a_2 + a_3 + a_4) a_3 a_4}$$

$$= \frac{1}{a_1 (a_2 + a_3 + a_4) a_3 a_4}$$

$$= \frac{1}{a_1 (a_2 + a_3 + a_4) a_3 a_4}$$

$$= \frac{1}{a_1 (a_2 + a_3 + a_4) a_3 a_4}$$

$$= \frac{1}{a_1 (a_2 + a_3 + a_4) a_3 a_4}$$

$$= \frac{1}{a_1 (a_2 +$$

Diagram 406:

$$PO4.406 = \lim_{\tau \to \infty} \frac{(-1)^4}{(2!)^2} \sum_{k_i} O_{k_1 k_2 k_3 k_4}^{40} \Omega_{k_1 k_2}^{02} \Omega_{k_5 k_6 k_7 k_3}^{31} \Omega_{k_5 k_6}^{02} \Omega_{k_7 k_4}^{02} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_2) e^{-\tau_1 \epsilon_{k_1 k_2}} e^{-\tau_2 \epsilon_{k_3}^{k_5 k_6 k_7}} e^{-\tau_3 \epsilon_{k_3}^{02}} e^{-\tau_3 \epsilon_{k_3}^{02}} e^{-\tau_3 \epsilon_{k_3}^{02}} e^{-\tau_3 \epsilon_{k_3}^{02}} e^{-\tau_3 \epsilon_{k_3 k_4}^{02}} e^{-\tau_3 \epsilon_{k_$$

$$T2 = \frac{1}{a_1(a_2 + a_3 + a_4)a_3a_4}$$

$$a_1 = \epsilon_{k_1k_2}$$

$$a_2 = \epsilon_{k_5k_6k_7}$$

$$a_3 = \epsilon_{k_5k_6}$$

$$a_4 = \epsilon_{k_4k_7}$$

$$(826)$$

Diagram 407:

$$PO4.407 = \lim_{\tau \to \infty} \frac{-(-1)^4}{2(2!)^2} \sum_{k_i} O_{k_1 k_2 k_3 k_4}^{40} \Omega_{k_5 k_6 k_1 k_2}^{22} \Omega_{k_7 k_8 k_5 k_6}^{22} \Omega_{k_7 k_8 k_5 k_6}^{02} \Omega_{k_7 k_3}^{02} \Omega_{k_8 k_4}^{02} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_2) e^{-\tau_1 \epsilon_{k_1 k_2}^{k_5 k_6}} \Omega_{k_7 k_3}^{02} \Omega_{k_8 k_4}^{02}$$

$$= \frac{-(-1)^4}{2(2!)^2} \sum_{k_i} \frac{O_{k_1 k_2 k_3 k_4}^{40} \Omega_{k_5 k_6 k_1 k_2}^{22} \Omega_{k_7 k_8 k_5 k_6}^{22} \Omega_{k_7 k_3}^{02} \Omega_{k_8 k_4}^{02}}{\epsilon_{k_1 k_2 k_3 k_4}}$$

$$\rightarrow T7:$$

$$T7 = \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_3 + a_4)a_3 a_4}$$

$$a_1 = \epsilon_{k_1 k_2}^{k_5 k_6}$$

$$a_2 = \epsilon_{k_7 k_8}^{k_7 k_8}$$

$$a_2 = \epsilon_{k_5 k_6}^{k_7 k_8}$$

$$a_2 = \epsilon_{k_5 k_6}^{k_7 k_8}$$

$$a_3 = \epsilon_{k_5 k_6}^{k_7 k_8}$$

$$a_4 = \epsilon_{k_5 k_6}^{k_7 k_8}$$

 $a_3 = \epsilon_{k_3 k_7}$ $a_4 = \epsilon_{k_4 k_8}$

Diagram 408:

$$T7 = \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_3 + a_4)a_3a_4}$$

$$a_1 = \epsilon_{k_1}^{k_5}$$

$$a_2 = \epsilon_{k_5}^{k_6k_7k_8}$$

$$a_3 = \epsilon_{k_2k_3k_6k_7}$$

$$a_4 = \epsilon_{k_4k_8}$$
(830)

Diagram 409:

$$PO4.409 = \lim_{\tau \to \infty} \frac{-(-1)^4}{(2!)^2} \sum_{k_i} O_{k_1 k_2 k_3 k_4}^{40} \Omega_{k_5 k_6}^{20} \Omega_{k_7 k_8 k_9 k_1}^{31} \Omega_{k_7 k_8 k_5 k_2}^{04} \Omega_{k_9 k_6 k_3 k_4}^{04} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_1) \theta(\tau_4$$

$$T10 = \frac{1}{(a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)a_3a_4} + \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_3 + a_4)a_3a_4}$$

$$a_1 = \epsilon^{k_5k_6}$$

$$a_2 = \epsilon^{k_7k_8k_9}_{k_1}$$

$$a_3 = \epsilon_{k_2k_5k_7k_8}$$

$$a_4 = \epsilon_{k_3k_4k_6k_9}$$

$$(832)$$

Diagram 410:

$$PO4.410 = \lim_{\tau \to \infty} \frac{(-1)^4}{(2!)^2} \sum_{k_i} O_{k_1 k_2 k_3 k_4}^{40} \Omega_{k_5 k_6 k_1 k_2}^{22} \Omega_{k_7 k_8 k_9 k_3}^{31} \Omega_{k_7 k_5}^{02} \Omega_{k_8 k_9 k_6 k_4}^{04} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) \theta(\tau_4 - \tau_4) \theta(\tau_5 - \tau_2) \theta(\tau_4 - \tau_4) \theta(\tau_5 -$$

$$T10 = \frac{1}{(a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)a_3a_4} + \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_3 + a_4)a_3a_4}$$
(834)

$$\begin{aligned} a_1 &= \epsilon_{k_1 k_2}^{k_5 k_6} \\ a_2 &= \epsilon_{k_3}^{k_7 k_8 k_9} \\ a_3 &= \epsilon_{k_5 k_7} \\ a_4 &= \epsilon_{k_4 k_6 k_8 k_9} \end{aligned}$$

Diagram 411:

$$PO4.411 = \lim_{\tau \to \infty} \frac{-(-1)^4}{(2!)} \sum_{k_i} O_{k_1 k_2 k_3 k_4}^{40} \Omega_{k_5 k_6 k_7 k_1}^{31} \Omega_{k_5 k_6 k_7 k_2}^{22} \Omega_{k_5 k_6 k_5 k_2}^{60} \Omega_{k_5 k_6 k_3 k_4}^{60} \Omega_{k_6 k_7}^{60} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau$$

 $a_4 = \epsilon_{k_7 k_0}$

Diagram 412:

Diagram 413:

$$PO4.413 = \lim_{\tau \to \infty} \frac{(-1)^4}{(2!)^2} \sum_{k_i} O_{k_1 k_2 k_3 k_4}^{40} \Omega_{k_5 k_6 k_7 k_1}^{31} \Omega_{k_5 k_6 k_7 k_1}^{22} \Omega_{k_5 k_7 k_5 k_6}^{02} \Omega_{k_5 k_7 k_3 k_4}^{04} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_1)$$

 $a_4 = \epsilon_{k_3 k_4 k_7 k_6}$

Diagram 414:

Diagram 415:

$$PO4.415 = \lim_{\tau \to \infty} \frac{-(-1)^4}{(2!)} \sum_{k_i} O_{k_1 k_2 k_3 k_4}^{40} \Omega_{k_5 k_6}^{20} \Omega_{k_7 k_8 k_5 k_1}^{22} \Omega_{k_7 k_2}^{04} \Omega_{k_8 k_6 k_3 k_4}^{04} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_2) \theta(\tau$$

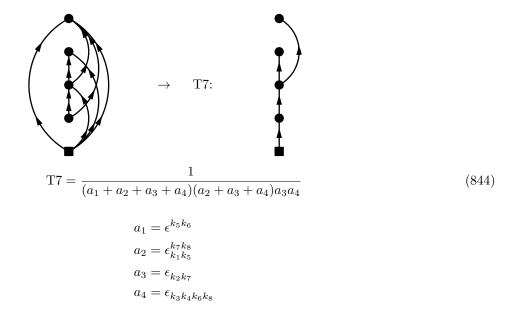
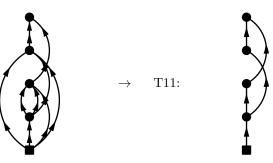


Diagram 416:

$$PO4.416 = \lim_{\tau \to \infty} \frac{(-1)^4}{(2!)^2} \sum_{k_i} O_{k_1 k_2 k_3 k_4}^{40} \Omega_{k_5 k_6 k_7 k_1}^{31} \Omega_{k_8 k_5 k_6 k_2}^{13} \Omega_{k_9 k_7 k_3 k_4}^{13} \Omega_{k_9 k_8}^{02} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4 -$$



$$T11 = \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_4)(a_3 + a_2 + a_4)a_4} + \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_3 + a_4)(a_3 + a_4)a_4}$$

$$a_1 = \epsilon_{k_5}^{k_5 k_6 k_7}$$

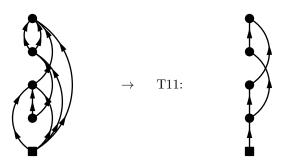
$$a_2 = \epsilon_{k_2}^{k_8}$$

$$a_3 = \epsilon_{k_3 k_4 k_7}^{k_9}$$

$$a_4 = \epsilon_{k_5 k_6}$$

Diagram 417:

$$PO4.417 = \lim_{\tau \to \infty} \frac{(-1)^4}{(2!)^2} \sum_{k_i} O_{k_1 k_2 k_3 k_4}^{40} \Omega_{k_5 k_6}^{20} \Omega_{k_7 k_5 k_1 k_2}^{13} \Omega_{k_8 k_9 k_6 k_3}^{22} \Omega_{k_8 k_9 k_7 k_4}^{40} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4 -$$



$$T11 = \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_4)(a_3 + a_2 + a_4)a_4} + \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_3 + a_4)(a_3 + a_4)a_4}$$
(848)

$$a_1 = \epsilon^{k_5 k_6}$$

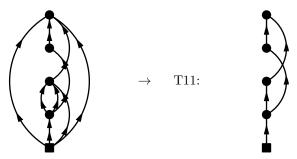
$$a_2 = \epsilon_{k_1 k_2 k_5}^{k_7}$$
$$a_3 = \epsilon_{k_3 k_6}^{k_8 k_9}$$

$$a_3 = \epsilon_{k_3 k_6}^{k_8 k_9}$$

$$a_4 = \epsilon_{k_4 k_7 k_8 k_9}$$

Diagram 418:

$$PO4.418 = \lim_{\tau \to \infty} \frac{(-1)^4}{(2!)^2} \sum_{k_i} O_{k_1 k_2 k_3 k_4}^{40} \Omega_{k_5 k_6 k_7 k_1}^{13} \Omega_{k_8 k_5 k_6 k_2}^{13} \Omega_{k_9 k_7}^{13} \Omega_{k_9 k_8}^{04} \Omega_{k_9 k_8 k_3 k_4}^{14} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau$$



$$T11 = \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_4)(a_3 + a_2 + a_4)a_4} + \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_3 + a_4)(a_3 + a_4)a_4}$$
(850)

$$a_1 = \epsilon_{k_1}^{k_5 k_6 k_7}$$

$$a_2 = \epsilon_{k_2 k_5 k_6}^{k_8}$$

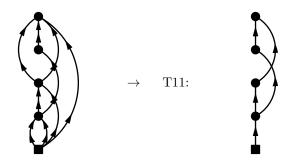
$$a_3 = \epsilon_{k_7}^{k_9}$$

$$a_3 = \epsilon_{k_7}^{k_9}$$

$$a_4 = \epsilon_{k_3 k_4 k_8 k_9}$$

Diagram 419:

$$PO4.419 = \lim_{\tau \to \infty} \frac{-(-1)^4}{(2!)^2} \sum_{k_i} O_{k_1 k_2 k_3 k_4}^{40} \Omega_{k_5 k_6 k_1 k_2}^{22} \Omega_{k_7 k_8 k_5 k_3}^{22} \Omega_{k_9 k_6}^{11} \Omega_{k_9 k_7 k_8 k_4}^{04} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4$$



$$T11 = \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_4)(a_3 + a_2 + a_4)a_4} + \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_3 + a_4)(a_3 + a_4)a_4}$$

$$a_1 = \epsilon_{k_1 k_2}^{k_5 k_6}$$

$$a_2 = \epsilon_{k_3 k_5}^{k_5 k_6}$$

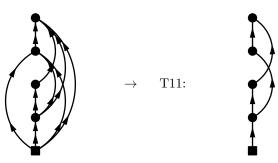
$$a_3 = \epsilon_{k_5 k_6}^{k_5 k_6}$$

$$a_4 = \epsilon_{k_5 k_6}^{k_5 k_6}$$

$$a_5 = \epsilon_{k_5 k_6}^{k_5 k_6}$$

Diagram 420:

$$PO4.420 = \lim_{\tau \to \infty} \frac{-(-1)^4}{(2!)} \sum_{k_i} O_{k_1 k_2 k_3 k_4}^{40} \Omega_{k_5 k_6 k_7 k_1}^{31} \Omega_{k_8 k_5}^{11} \Omega_{k_9 k_6 k_2 k_3}^{13} \Omega_{k_9 k_6 k_2 k_3}^{04} \Omega_{k_9 k_8 k_7 k_4}^{04} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau$$



$$T11 = \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_4)(a_3 + a_2 + a_4)a_4} + \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_3 + a_4)(a_3 + a_4)a_4}$$

$$a_1 = \epsilon_{k_5}^{k_5 k_6 k_7}$$

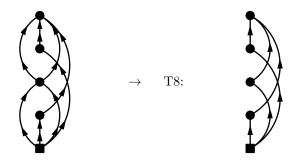
$$a_2 = \epsilon_{k_5}^{k_8}$$

$$a_3 = \epsilon_{k_2 k_3 k_6}^{k_9}$$

$$a_4 = \epsilon_{k_5 k_5 k_6 k_7}$$

Diagram 421:

$$PO4.421 = \lim_{\tau \to \infty} \frac{-(-1)^4}{2(2!)^2} \sum_{k_i} O_{k_1 k_2 k_3 k_4}^{40} \Omega_{k_5 k_1}^{11} \Omega_{k_6 k_7 k_2 k_3}^{22} \Omega_{k_8 k_4}^{11} \Omega_{k_8 k_6 k_7 k_5}^{04} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_{k_1}^{k_5}} e^{$$



$$T8 = \frac{1}{(a_1 + a_2 + a_4)(a_2 + a_4)(a_3 + a_1 + a_2 + a_4)a_4} + \frac{1}{(a_1 + a_4)(a_2 + a_1 + a_4)(a_3 + a_1 + a_2 + a_4)a_4} + \frac{1}{(a_1 + a_4)(a_2 + a_1 + a_4)(a_3 + a_1 + a_2 + a_4)a_4} + \frac{1}{(a_1 + a_4)(a_2 + a_1 + a_4)(a_3 + a_1 + a_2 + a_4)a_4} + \frac{1}{(a_1 + a_4)(a_2 + a_1 + a_4)(a_3 + a_1 + a_2 + a_4)a_4} + \frac{1}{(a_1 + a_4)(a_2 + a_1 + a_4)(a_3 + a_1 + a_2 + a_4)a_4} + \frac{1}{(a_1 + a_4)(a_2 + a_1 + a_4)(a_3 + a_1 + a_2 + a_4)a_4} + \frac{1}{(a_1 + a_4)(a_2 + a_1 + a_4)(a_3 + a_1 + a_2 + a_4)a_4} + \frac{1}{(a_1 + a_4)(a_2 + a_1 + a_4)(a_3 + a_1 + a_2 + a_4)a_4} + \frac{1}{(a_1 + a_4)(a_2 + a_1 + a_4)(a_3 + a_1 + a_2 + a_4)a_4} + \frac{1}{(a_1 + a_4)(a_2 + a_1 + a_4)(a_3 + a_1 + a_2 + a_4)a_4} + \frac{1}{(a_1 + a_4)(a_2 + a_1 + a_4)(a_3 + a_1 + a_2 + a_4)a_4} + \frac{1}{(a_1 + a_4)(a_2 + a_1 + a_4)(a_3 + a_1 + a_2 + a_4)a_4} + \frac{1}{(a_1 + a_4)(a_2 + a_1 + a_4)(a_3 + a_1 + a_2 + a_4)a_4} + \frac{1}{(a_1 + a_4)(a_2 + a_1 + a_4)(a_3 + a_1 + a_2 + a_4)a_4} + \frac{1}{(a_1 + a_4)(a_2 + a_1 + a_4)(a_3 + a_1 + a_2 + a_4)a_4} + \frac{1}{(a_1 + a_4)(a_2 + a_1 + a_4)(a_3 + a_1 + a_2 + a_4)a_4} + \frac{1}{(a_1 + a_4)(a_2 + a_1 + a_2 + a_4)(a_3 + a_1 + a_2 + a_4)a_4} + \frac{1}{(a_1 + a_4)(a_2 + a_1 + a_2 + a_4)(a_3 + a_1 + a_2 + a_4)a_4} + \frac{1}{(a_1 + a_4)(a_2 + a_1 + a_2 + a_4)(a_3 + a_1 + a_2 + a_4)a_4} + \frac{1}{(a_1 + a_4)(a_2 + a_1 + a_2 + a_4)(a_3 + a_1 + a_2 + a_4)a_4} + \frac{1}{(a_1 + a_4)(a_2 + a_1 + a_2 + a_4)(a_3 + a_1 + a_2 + a_4)a_4} + \frac{1}{(a_1 + a_4)(a_2 + a_1 + a_2 + a_4)(a_3 + a_1 + a_2 + a_4)a_4} + \frac{1}{(a_1 + a_2 + a_4)(a_3 + a_1 + a_2 + a_4)(a_$$

$$a_{1} = \epsilon_{k_{1}}^{k_{5}}$$

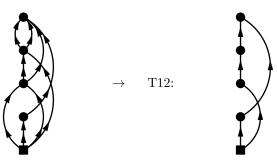
$$a_{2} = \epsilon_{k_{2}k_{3}}^{k_{6}k_{7}}$$

$$a_{3} = \epsilon_{k_{4}}^{k_{8}}$$

$$a_{4} = \epsilon_{k_{5}k_{6}k_{7}k_{8}}$$

Diagram 422:

$$PO4.422 = \lim_{\tau \to \infty} \frac{(-1)^4}{(2!)^2} \sum_{k_i} O_{k_1 k_2 k_3 k_4}^{40} \Omega_{k_5 k_1}^{11} \Omega_{k_6 k_7 k_2 k_3}^{22} \Omega_{k_8 k_9 k_6 k_4}^{22} \Omega_{k_8 k_9 k_7 k_5}^{40} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 -$$

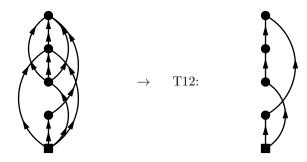


$$T12 = \frac{1}{(a_1 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_4)a_4} + \frac{1}{(a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_4)a_4} + \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_4)a_4} + \frac{1}{(a_1 + a_3 + a_4)(a_3 + a_1 + a_3 + a_4)(a_3 + a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_2 + a_3 + a_$$

$$\begin{aligned} a_1 &= \epsilon_{k_1}^{k_5} \\ a_2 &= \epsilon_{k_2 k_3}^{k_6 k_7} \\ a_3 &= \epsilon_{k_4 k_6}^{k_8 k_9} \\ a_4 &= \epsilon_{k_5 k_7 k_8 k_9} \end{aligned}$$

Diagram 423:

$$PO4.423 = \lim_{\tau \to \infty} \frac{-(-1)^4}{(2!)^2} \sum_{k_i} O_{k_1 k_2 k_3 k_4}^{40} \Omega_{k_5 k_1}^{11} \Omega_{k_6 k_7 k_8 k_2}^{31} \Omega_{k_9 k_6 k_3 k_4}^{13} \Omega_{k_9 k_7 k_8 k_5}^{01} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_2) \theta(\tau_4$$



$$T12 = \frac{1}{(a_1 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_4)a_4} + \frac{1}{(a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_4)a_4} + \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_4)a_4} + \frac{1}{(a_1 + a_3 + a_4)(a_3 + a_1 + a_3 + a_4)(a_3$$

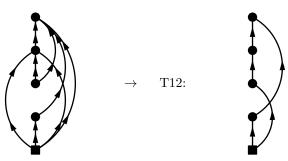
$$a_{1} = \epsilon_{k_{1}}^{k_{5}}$$

$$a_{2} = \epsilon_{k_{2}}^{k_{6}k_{7}k_{8}}$$

$$a_{3} = \epsilon_{k_{3}k_{4}k_{6}}^{k_{9}}$$

$$a_{4} = \epsilon_{k_{5}k_{7}k_{8}k_{7}}$$

Diagram 424:



$$T12 = \frac{1}{(a_1 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_4)a_4} + \frac{1}{(a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_4)a_4} + \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_4)a_4} + \frac{1}{(a_1 + a_3 + a_4)(a_3 + a_1 + a_3 + a_4)(a_3 + a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_2)(a_3$$

$$a_1 = \epsilon_{k_1}^{k_5}$$

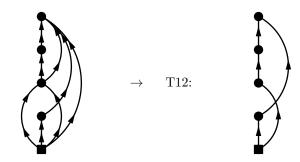
$$a_2 = \epsilon^{k_6 k_7}$$

$$a_3 = \epsilon_{k_2 k_3 k_6}^{k_8}$$

$$a_4 = \epsilon_{k_4 k_5 k_7 k_8}$$

Diagram 425:

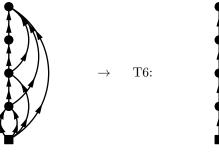
$$PO4.425 = \lim_{\tau \to \infty} \frac{(-1)^4}{(2!)} \sum_{k_i} O_{k_1 k_2 k_3 k_4}^{40} \Omega_{k_5 k_1}^{11} \Omega_{k_6 k_7 k_2 k_3}^{22} \Omega_{k_8 k_6}^{11} \Omega_{k_8 k_7 k_5 k_4}^{64} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_2} d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_4} d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_4} d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_4} d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_4} d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_4} d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_4} d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_4} d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_4} d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_4} d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_4} d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_4} d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_4} d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_4} d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_4} d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_4} d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_4} d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_4} d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) \theta(\tau_4 - \tau_4) \theta(\tau_4 - \tau_4)$$



$$T12 = \frac{1}{(a_1 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_4)a_4} + \frac{1}{(a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_4)a_4} + \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_4)a_4} + \frac{1}{(a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_4)a_4} + \frac{1}{(a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_4)(a_3 + a_4)(a_4 + a$$

Diagram 426:

$$PO4.426 = \lim_{\tau \to \infty} \frac{-(-1)^4}{(2!)} \sum_{k_i} O_{k_1 k_2 k_3 k_4}^{40} \Omega_{k_5 k_6 k_1 k_2}^{22} \Omega_{k_7 k_8 k_5 k_3}^{22} \Omega_{k_9 k_7}^{11} \Omega_{k_9 k_8 k_6 k_4}^{04} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_1) \theta(\tau_4 -$$



$$T6 = \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_3 + a_4)(a_3 + a_4)a_4}$$

$$a_1 = \epsilon_{k_1 k_2}^{k_5 k_6}$$

$$a_2 = \epsilon_{k_3 k_5}^{k_7 k_8}$$

$$a_3 = \epsilon_{k_7}^{k_9}$$

$$a_4 = \epsilon_{k_4 k_6 k_8 k_9}^{k_9 k_9}$$
(866)

Diagram 427:

$$PO4.427 = \lim_{\tau \to \infty} \frac{-(-1)^4}{(2!)} \sum_{k_i} O_{k_1 k_2 k_3 k_4}^{40} \Omega_{k_5 k_6}^{20} \Omega_{k_7 k_8 k_5 k_1}^{22} \Omega_{k_9 k_7 k_2 k_3}^{13} \Omega_{k_9 k_7 k_2 k_3}^{04} \Omega_{k_9 k_8 k_6 k_4}^{04} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau$$

$$T6 = \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_3 + a_4)(a_3 + a_4)a_4}$$

$$a_1 = \epsilon^{k_5 k_6}$$

$$a_2 = \epsilon^{k_7 k_8}_{k_1 k_5}$$

$$a_3 = \epsilon^{k_9}_{k_2 k_3 k_7}$$

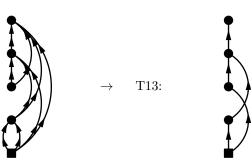
$$a_4 = \epsilon_{k_5 k_5 k_5}$$

$$a_4 = \epsilon_{k_5 k_5 k_5}$$

$$a_5 = \epsilon^{k_9}_{k_2 k_3 k_7}$$

Diagram 428:

$$PO4.428 = \lim_{\tau \to \infty} \frac{-(-1)^4}{(2!)} \sum_{k_i} O_{k_1 k_2 k_3 k_4}^{40} \Omega_{k_5 k_6 k_1 k_2}^{22} \Omega_{k_7 k_8}^{20} \Omega_{k_9 k_7 k_5 k_3}^{13} \Omega_{k_9 k_8 k_6 k_4}^{04} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_1) \theta(\tau_4 -$$



$$T13 = \frac{1}{(a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_4)a_4} + \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_3 + a_4)(a_3 + a_4)a_4}$$

$$a_1 = \epsilon_{k_1 k_2}^{k_5 k_6}$$

$$a_2 = \epsilon_{k_7 k_8}^{k_9}$$

$$a_3 = \epsilon_{k_3 k_5 k_7}^{k_9}$$

$$a_4 = \epsilon_{k_5 k_6 k_5 k_7}^{k_9}$$

Diagram 429:

$$PO4.429 = \lim_{\tau \to \infty} \frac{-(-1)^4}{(2!)} \sum_{k_i} O_{k_1 k_2 k_3 k_4}^{40} \Omega_{k_5 k_6}^{20} \Omega_{k_7 k_8 k_5 k_1}^{22} \Omega_{k_9 k_7 k_6 k_2}^{13} \Omega_{k_9 k_7 k_6 k_2}^{04} \Omega_{k_9 k_8 k_3 k_4}^{04} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau$$

$$T6 = \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_3 + a_4)(a_3 + a_4)a_4}$$

$$a_1 = \epsilon^{k_5 k_6}$$

$$a_2 = \epsilon^{k_7 k_8}_{k_1 k_5}$$

$$a_3 = \epsilon^{k_9}_{k_2 k_6 k_7}$$

$$a_4 = \epsilon_{k_3 k_4 k_8 k_9}$$

$$(872)$$

Diagram 430:

$$PO4.430 = \lim_{\tau \to \infty} \frac{-(-1)^4}{(2!)} \sum_{k_i} O_{k_1 k_2 k_3 k_4}^{40} \Omega_{k_2 k_3 k_4}^{22} \Omega_{k_2 k_3 k_5 k_3}^{22} \Omega_{k_2 k_3 k_5 k_3}^{13} \Omega_{k_3 k_7 k_6 k_4}^{40} \Omega_{k_9 k_8}^{02} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_1)$$

Diagram 431:

$$PO4.431 = \lim_{\tau \to \infty} \frac{(-1)^4}{(2!)} \sum_{k_i} O_{k_1 k_2 k_3 k_4}^{40} \Omega_{k_1 k_2 k_3 k_4}^{11} \Omega_{k_6 k_7 k_5 k_2}^{22} \Omega_{k_8 k_6 k_3 k_4}^{13} \Omega_{k_8 k_7}^{02} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_3} d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_3} d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_3} d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_3} d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_3} d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_3} d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_3} d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_3} d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_3} d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_3} d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_3} d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_3} d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_3} d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_3} d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_3} d\tau_4 \theta(\tau_2 - \tau_3) \theta(\tau_3 - \tau_3) \theta(\tau_4 -$$

 $a_4 = \epsilon_{k_0 k_0}$

$$T6 = \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_3 + a_4)(a_3 + a_4)a_4}$$

$$a_1 = \epsilon_{k_1}^{k_5}$$

$$a_2 = \epsilon_{k_2 k_5}^{k_6 k_7}$$

$$a_3 = \epsilon_{k_3 k_4 k_6}^{k_8}$$

$$a_4 = \epsilon_{k_7 k_8}$$

$$(876)$$

Diagram 432:

$$PO4.432 = \lim_{\tau \to \infty} \frac{(-1)^4}{(2!)^2} \sum_{k_i} O_{k_1 k_2 k_3 k_4}^{40} \Omega_{k_5 k_1}^{11} \Omega_{k_6 k_7 k_8 k_5}^{31} \Omega_{k_9 k_6 k_2 k_3}^{13} \Omega_{k_9 k_7 k_8 k_4}^{04} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 -$$

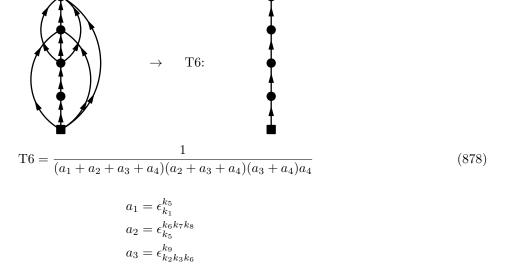
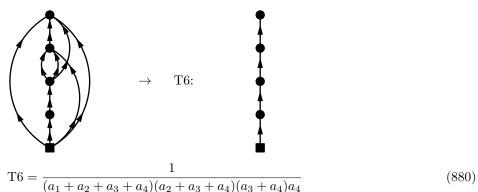


Diagram 433:

$$PO4.433 = \lim_{\tau \to \infty} \frac{-(-1)^4}{(2!)^2} \sum_{k_i} O_{k_1 k_2 k_3 k_4}^{40} \Omega_{k_5 k_1}^{11} \Omega_{k_6 k_7 k_8 k_5}^{31} \Omega_{k_9 k_6 k_7 k_2}^{13} \Omega_{k_9 k_8 k_3 k_4}^{04} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_2) \theta(\tau_4$$



$$a_{1} = \epsilon_{k_{1}}^{k_{5}}$$

$$a_{2} = \epsilon_{k_{5}}^{k_{6}k_{7}k_{8}}$$

$$a_{3} = \epsilon_{k_{2}k_{6}k_{7}}^{k_{9}}$$

$$a_{4} = \epsilon_{k_{3}k_{4}k_{8}k_{9}}$$

Diagram 434:

$$PO4.434 = \lim_{\tau \to \infty} \frac{(-1)^4}{(2!)} \sum_{k_i} O_{k_1 k_2 k_3 k_4}^{40} \Omega_{k_5 k_1}^{11} \Omega_{k_6 k_7 k_5 k_2}^{22} \Omega_{k_8 k_6}^{11} \Omega_{k_8 k_7 k_3 k_4}^{04} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_3} d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_3} d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_3} d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_3} d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_3} d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_3} d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_3} d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_3} d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_3} d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_3} d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_3} d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_3} d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_3} d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_3} d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_3} d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_3} d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_3} d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_3} d\tau_4 \theta(\tau_3 - \tau_3) e^{-\tau_3} d\tau_4 \theta(\tau_3$$

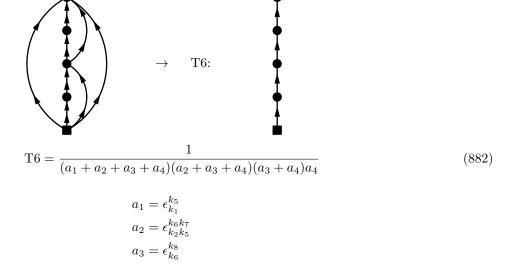
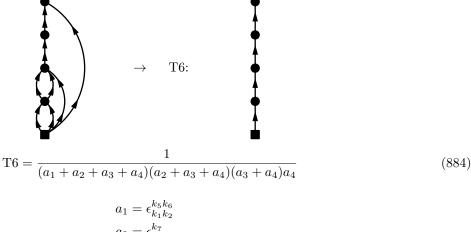


Diagram 435:

$$PO4.435 = \lim_{\tau \to \infty} \frac{(-1)^4}{(2!)^2} \sum_{k_i} O_{k_1 k_2 k_3 k_4}^{40} \Omega_{k_5 k_6 k_1 k_2}^{22} \Omega_{k_7 k_5 k_6 k_3}^{13} \Omega_{k_8 k_7}^{11} \Omega_{k_8 k_4}^{02} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_{k_1 k_2}^{k_5 k_6}} e^{-\tau_1 \epsilon_{k_1 k_2}^{k_5$$



$$a_{1} = \epsilon_{k_{1}k_{2}}$$

$$a_{2} = \epsilon_{k_{3}k_{5}k_{6}}^{k_{7}}$$

$$a_{3} = \epsilon_{k_{7}}^{k_{8}}$$

$$a_{4} = \epsilon_{k_{4}k_{8}}$$

Diagram 436:

$$PO4.436 = \lim_{\tau \to \infty} \frac{(-1)^4}{(2!)^3} \sum_{k_i} O_{k_1 k_2 k_3 k_4}^{40} \Omega_{k_5 k_1}^{11} \Omega_{k_6 k_7 k_5 k_2}^{22} \Omega_{k_8 k_9 k_6 k_7}^{20} \Omega_{k_8 k_9 k_3 k_4}^{01} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_1 \varepsilon_{k_1}^{k_5} \theta(\tau_4 - \tau_3)} e^{-\tau_1 \varepsilon_{k_1}^{k_5} \theta(\tau_4 - \tau_3)} e^{-\tau_1 \varepsilon_{k_1}^{k_5} \theta(\tau_4 - \tau_4)} e^{-\tau_1 \varepsilon_{k_1$$

 $a_4 = \epsilon_{k_2 k_4 k_8 k_6}$

Diagram 437:

$$\begin{aligned} \text{PO4.437} &= \lim_{\tau \to \infty} \frac{(-1)^4}{(2!)} \sum_{k_i} O_{k_1 k_2 k_3 k_4}^{40} \Omega_{k_1 k_1}^{11} \Omega_{k_6 k_5 k_2 k_3}^{13} \Omega_{k_7 k_6}^{11} \Omega_{k_7 k_4}^{02} \int_0^{\tau} \mathrm{d}\tau_1 \mathrm{d}\tau_2 \mathrm{d}\tau_3 \mathrm{d}\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_{k_1}^{k_6}} e^{-\tau_2 \epsilon_{k_2 k_3}^{k_6}} \\ &= \frac{(-1)^4}{(2!)} \sum_{k_i} \frac{O_{k_1 k_2 k_3 k_4}^{40} \Omega_{k_5 k_1}^{11} \Omega_{k_6 k_5 k_2 k_3}^{13} \Omega_{k_7 k_6}^{11} \Omega_{k_7 k_4}^{02}}{\epsilon_{k_1 k_2 k_3 k_4}} \\ &\to T6: \\ &\to T6:$$

Diagram 438:

$$PO4.438 = \lim_{\tau \to \infty} \frac{(-1)^4}{(2!)(3!)} \sum_{k_i} O_{k_1 k_2 k_3 k_4}^{40} \Omega_{k_5 k_1}^{11} \Omega_{k_6 k_5 k_2 k_3}^{13} \Omega_{k_7 k_8 k_9 k_6}^{31} \Omega_{k_7 k_8 k_9 k_4}^{04} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_k^2} d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_k^2} d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_k^2} d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_k^2} d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_k^2} d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_k^2} d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_k^2} d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_k^2} d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_k^2} d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_k^2} d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_k^2} d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_k^2} d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_k^2} d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_k^2} d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_k^2} d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_k^2} d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_k^2} d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_k^2} d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_k^2} d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_k^2} d\tau_4 \theta(\tau_2 - \tau_3) \theta(\tau_3 -$$

$$76 = \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_3 + a_4)(a_3 + a_4)a_4}$$

$$a_1 = \epsilon_{k_1}^{k_5}$$

$$a_2 = \epsilon_{k_2k_3k_5}^{k_6}$$

$$a_3 = \epsilon_{k_6}^{k_7k_8k_9}$$

$$a_4 = \epsilon_{k_4k_7k_8k_9}$$

$$a_4 = \epsilon_{k_4k_7k_8k_9}$$

Diagram 439:

$$T6 = \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_3 + a_4)(a_3 + a_4)a_4}$$

$$a_1 = \epsilon^{k_5 k_6}$$

$$a_2 = \epsilon^{k_7}_{k_1 k_5 k_6}$$

$$a_3 = \epsilon^{k_8 k_9}_{k_2 k_7}$$

$$a_4 = \epsilon_{k_2 k_4 k_5 k_6}$$

$$(892)$$

Diagram 440:

Diagram 440:
$$PO4.440 = \lim_{\tau \to \infty} \frac{(-1)^4}{(2!)^2} \sum_{k_i} O_{k_1 k_2 k_3 k_4}^{40} \Omega_{k_5 k_6}^{20} \Omega_{k_7 k_5 k_6 k_1}^{13} \Omega_{k_8 k_7 k_2 k_3}^{13} \Omega_{k_8 k_4}^{02} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon^{k_5 k_6}} e^{$$

$$T6 = \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_3 + a_4)(a_3 + a_4)a_4}$$

$$a_1 = \epsilon^{k_5 k_6}$$

$$a_2 = \epsilon^{k_7}_{k_1 k_5 k_6}$$

$$a_3 = \epsilon^{k_8}_{k_2 k_3 k_7}$$

$$a_4 = \epsilon_{k_4 k_8}$$

$$(894)$$

Diagram 441:

$$PO4.441 = \lim_{\tau \to \infty} \frac{(-1)^4}{(2!)^3} \sum_{k_i} O_{k_1 k_2 k_3 k_4}^{40} \Omega_{k_5 k_6 k_1 k_2}^{22} \Omega_{k_7 k_8 k_5 k_6}^{23} \Omega_{k_9 k_7 k_8 k_3}^{13} \Omega_{k_9 k_4}^{02} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_{k_1 k_2 k_3 k_4}^{k_5 k_6 k_1 k_2}} \frac{(-1)^4}{(2!)^3} \sum_{k_i} \frac{O_{k_1 k_2 k_3 k_4}^{40} \Omega_{k_5 k_6 k_1 k_2}^{22} \Omega_{k_7 k_8 k_5 k_6}^{22} \Omega_{k_7 k_8 k_5 k_6}^{13} \Omega_{k_9 k_7 k_8 k_3}^{13} \Omega_{k_9 k_4}^{02}}{\epsilon_{k_1 k_2 k_3 k_4}}$$

$$\rightarrow T6:$$

$$T6 = \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_3 + a_4)(a_3 + a_4)a_4}$$

$$(896)$$

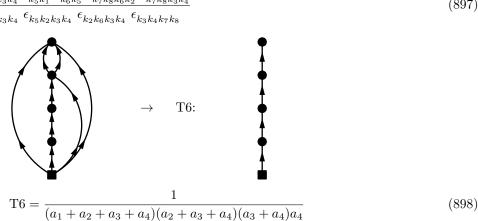
$$a_1 = \epsilon_{k_1 k_6}^{k_5 k_6}$$

$$a_{1} = \epsilon_{k_{1}k_{2}}^{k_{5}k_{6}}$$

$$a_{2} = \epsilon_{k_{5}k_{6}}^{k_{7}k_{8}}$$

$$a_{3} = \epsilon_{k_{3}k_{7}k_{8}}^{k_{9}}$$

Diagram 442:



$$a_1 = \epsilon_{k_1}^{k_5}$$

$$a_2 = \epsilon_{k_5}^{k_6}$$

$$a_3 = \epsilon_{k_2 k_6}^{k_7 k_8}$$

$$a_4 = \epsilon_{k_3 k_4 k_7 k_8}$$

Diagram 443:

$$PO4.443 = \lim_{\tau \to \infty} \frac{(-1)^4}{(2!)} \sum_{k_i} O_{k_1 k_2 k_3 k_4}^{40} \Omega_{k_5 k_1}^{11} \Omega_{k_6 k_5}^{11} \Omega_{k_7 k_6 k_2 k_3}^{13} \Omega_{k_7 k_4}^{02} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_{k_1}^{k_5}} e^{-\tau_2 \epsilon_{k_5}^{k_6}} e^{-\tau_2 \epsilon_{k_5}^{k_5}} e^{-\tau_2 \epsilon_{k_5}$$

$$T6 = \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_3 + a_4)(a_3 + a_4)a_4}$$

$$a_1 = \epsilon_{k_1}^{k_5}$$

$$a_2 = \epsilon_{k_5}^{k_6}$$

$$a_3 = \epsilon_{k_2 k_3 k_6}^{k_7}$$

$$(900)$$

 $a_4 = \epsilon_{k_4 k_7}$

Diagram 444:

$$PO4.444 = \lim_{\tau \to \infty} \frac{(-1)^4}{(2!)(3!)} \sum_{k_i} O_{k_1 k_2 k_3 k_4}^{40} \Omega_{k_5 k_6 k_7 k_1}^{31} \Omega_{k_8 k_5 k_6 k_7}^{13} \Omega_{k_9 k_8 k_2 k_3}^{13} \Omega_{k_9 k_4}^{02} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_k^2} d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_k^2} d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_k^2} d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_k^2} d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_k^2} d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_k^2} d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_k^2} d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_k^2} d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_k^2} d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_k^2} d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_k^2} d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_k^2} d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_k^2} d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_k^2} d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_k^2} d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_k^2} d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_k^2} d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_k^2} d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_k^2} d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_k^2} d\tau_4 \theta(\tau_2 - \tau_3) \theta(\tau_3 - \tau_2) \theta(\tau_3 - \tau_3) \theta(\tau_3 -$$

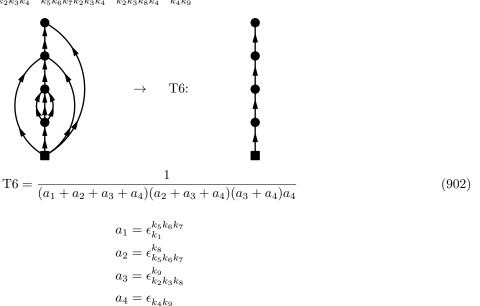


Diagram 445:

Diagram 446:

Diagram 447:

$$76 = \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_3 + a_4)(a_3 + a_4)a_4}$$

$$a_1 = \epsilon_{k_1 k_2}^{k_5 k_6}$$

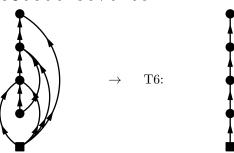
$$a_2 = \epsilon_{k_5}^{k_7}$$

$$a_3 = \epsilon_{k_3 k_6 k_7}^{k_8}$$

$$a_4 = \epsilon_{k_4 k_8}$$

$$(908)$$

Diagram 448:



$$T6 = \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_3 + a_4)(a_3 + a_4)a_4}$$

$$a_1 = \epsilon^{k_5 k_6}$$

$$a_2 = \epsilon^{k_7}_{k_1 k_2 k_5}$$

$$a_3 = \epsilon^{k_8}_{k_3 k_6 k_7}$$

$$a_4 = \epsilon_{k_4 k_8}$$

$$(910)$$

Diagram 449:

$$PO4.449 = \lim_{\tau \to \infty} \frac{(-1)^4}{(2!)^2} \sum_{k_i} O_{k_1 k_2 k_3 k_4}^{40} \Omega_{k_5 k_6 k_7 k_1}^{31} \Omega_{k_8 k_5 k_2 k_3}^{13} \Omega_{k_9 k_8 k_6 k_7}^{13} \Omega_{k_9 k_4}^{02} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 -$$

$$T6 = \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_3 + a_4)(a_3 + a_4)a_4}$$

$$a_1 = \epsilon_{k_1}^{k_5 k_6 k_7}$$

$$a_2 = \epsilon_{k_2 k_3 k_5}^{k_8}$$

$$a_3 = \epsilon_{k_6 k_7 k_8}^{k_9}$$

$$a_4 = \epsilon_{k_6 k_7 k_8}^{k_9}$$

$$a_5 = \epsilon_{k_6 k_7 k_8}^{k_9}$$
(912)

Diagram 450:

$$PO4.450 = \lim_{\tau \to \infty} \frac{-(-1)^4}{(2!)^2} \sum_{k_i} O_{k_1 k_2 k_3 k_4}^{40} \Omega_{k_5 k_6 k_1 k_2}^{22} \Omega_{k_7 k_8 k_5 k_3}^{22} \Omega_{k_9 k_7 k_8 k_6}^{13} \Omega_{k_9 k_7 k_8 k_6}^{02} \Omega_{k_9 k_4}^{02} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_4 -$$

$$T6 = \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_3 + a_4)(a_3 + a_4)a_4}$$

$$a_1 = \epsilon_{k_1 k_2}^{k_5 k_6}$$

$$a_2 = \epsilon_{k_3 k_5}^{k_7 k_8}$$

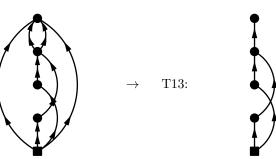
$$a_3 = \epsilon_{k_6 k_7 k_8}^{k_9}$$

$$a_4 = \epsilon_{k_5 k_6}$$

$$a_4 = \epsilon_{k_5 k_6}$$
(914)

Diagram 451:

$$PO4.451 = \lim_{\tau \to \infty} \frac{-(-1)^4}{2(2!)^2} \sum_{k_i} O_{k_1 k_2 k_3 k_4}^{40} \Omega_{k_5 k_1}^{11} \Omega_{k_6 k_2}^{11} \Omega_{k_7 k_8 k_6 k_5}^{12} \Omega_{k_7 k_8 k_6 k_5}^{04} \Omega_{k_7 k_8 k_3 k_4}^{04} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_3 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_{k_5}^{k_5}} e$$



$$T13 = \frac{1}{(a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_4)a_4} + \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_3 + a_4)(a_3 + a_4)a_4}$$
(916)

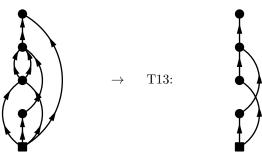
$$a_1 = \epsilon_{k_1}^{k_5}$$

$$a_2 = \epsilon_{k_2}^{k_6}$$

$$a_3 = \epsilon_{k_5 k_6}^{k_7 k_8}$$

$$a_4 = \epsilon_{k_3 k_4 k_7 k_5}$$

Diagram 452:



$$T13 = \frac{1}{(a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_4)a_4} + \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_3 + a_4)(a_3 + a_4)a_4}$$
(918)

$$a_{1} = \epsilon_{k_{1}}^{k_{5}}$$

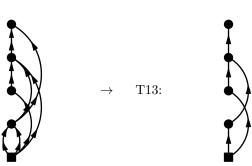
$$a_{2} = \epsilon_{k_{2}k_{3}}^{k_{6}k_{7}}$$

$$a_{3} = \epsilon_{k_{5}k_{6}k_{7}}^{k_{8}}$$

$$a_{4} = \epsilon_{k_{4}k_{8}}$$

Diagram 453:

$$PO4.453 = \lim_{\tau \to \infty} \frac{-(-1)^4}{(2!)} \sum_{k_i} O_{k_1 k_2 k_3 k_4}^{40} \Omega_{k_5 k_6 k_1 k_2}^{22} \Omega_{k_7 k_3}^{11} \Omega_{k_8 k_7 k_5 k_4}^{13} \Omega_{k_8 k_7 k_5 k_4}^{02} \Omega_{k_8 k_6}^{02} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) d\tau_4 \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) d\tau_4 \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) d\tau_4 \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) d\tau_4 \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) d\tau_4 \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) d\tau_4 \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) d\tau_4 \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) d\tau_4 \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) d\tau_4 \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) d\tau_4 \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) d\tau_4 \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) d\tau_4 \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) d\tau_4 \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) d\tau_4 \theta(\tau_4 - \tau_4) d\tau_4$$



$$T13 = \frac{1}{(a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_4)a_4} + \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_3 + a_4)(a_3 + a_4)a_4}$$
(920)

$$a_1 = \epsilon_{k_1 k_2}^{k_5 k_6}$$

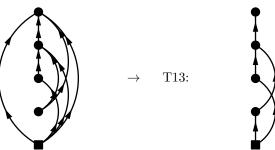
$$a_2 = \epsilon_{k_3}^{k_7}$$

$$a_3 = \epsilon_{k_4 k_5 k_7}^{k_8}$$

$$a_4 = \epsilon_{k_6 k_8}$$

Diagram 454:

$$PO4.454 = \lim_{\tau \to \infty} \frac{-(-1)^4}{(2!)} \sum_{k_i} O_{k_1 k_2 k_3 k_4}^{40} \Omega_{k_5 k_6}^{20} \Omega_{k_7 k_1}^{11} \Omega_{k_8 k_7 k_5 k_2}^{13} \Omega_{k_8 k_6 k_3 k_4}^{04} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) \theta(\tau_4 - \tau_3) \theta(\tau_4 - \tau_3) \theta(\tau_4 - \tau_4) \theta(\tau_5 - \tau_4) \theta(\tau_5 - \tau_4) \theta(\tau_5 - \tau_5) \theta(\tau_4 - \tau_5) \theta(\tau_5 - \tau_5) \theta(\tau$$



$$T13 = \frac{1}{(a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_4)a_4} + \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_3 + a_4)(a_3 + a_4)a_4}$$
(922)

$$a_1 = \epsilon^{k_5 k_6}$$

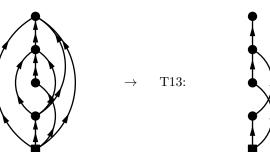
$$a_2 = \epsilon^{k_7}_{k_1}$$

$$a_3 = \epsilon^{k_8}_{k_2 k_5 k_7}$$

$$a_4 = \epsilon_{k_3 k_4 k_6 k_8}$$

Diagram 455:

$$PO4.455 = \lim_{\tau \to \infty} \frac{-(-1)^4}{(2!)^2} \sum_{k_i} O_{k_1 k_2 k_3 k_4}^{40} \Omega_{k_5 k_6 k_7 k_1}^{31} \Omega_{k_8 k_2}^{13} \Omega_{k_9 k_8 k_5 k_6}^{13} \Omega_{k_9 k_7 k_3 k_4}^{04} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_1) \theta(\tau_4$$

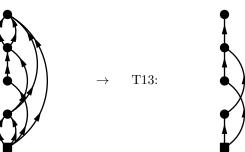


$$T13 = \frac{1}{(a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_4)a_4} + \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_3 + a_4)(a_3 + a_4)a_4}$$
(924)

$$\begin{aligned} a_1 &= \epsilon_{k_1}^{k_5 k_6 k_7} \\ a_2 &= \epsilon_{k_2}^{k_8} \\ a_3 &= \epsilon_{k_5 k_6 k_8}^{k_9} \\ a_4 &= \epsilon_{k_3 k_4 k_7 k_9} \end{aligned}$$

Diagram 456:

$$PO4.456 = \lim_{\tau \to \infty} \frac{(-1)^4}{(2!)^2} \sum_{k_i} O_{k_1 k_2 k_3 k_4}^{40} \Omega_{k_5 k_6 k_1 k_2}^{22} \Omega_{k_7 k_3}^{11} \Omega_{k_8 k_9 k_7 k_5}^{22} \Omega_{k_8 k_9 k_6 k_4}^{04} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 -$$



$$T13 = \frac{1}{(a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_4)a_4} + \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_3 + a_4)(a_3 + a_4)a_4}$$

$$a_1 = \epsilon_{k_1 k_2}^{k_5 k_6}$$

$$a_2 = \epsilon_{k_3}^{k_7}$$

$$a_4 = \epsilon_{k_1 k_2}$$

$$a_4 = \epsilon_{k_1 k_2}$$

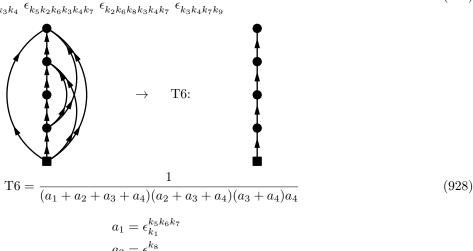
$$a_4 = \epsilon_{k_1 k_2}$$

$$a_4 = \epsilon_{k_1 k_2}$$

$$a_5 = \epsilon_{k_2 k_3}$$

Diagram 457:

$$PO4.457 = \lim_{\tau \to \infty} \frac{-(-1)^4}{(2!)} \sum_{k_i} O_{k_1 k_2 k_3 k_4}^{40} \Omega_{k_5 k_6 k_7 k_1}^{31} \Omega_{k_8 k_5}^{13} \Omega_{k_9 k_8 k_6 k_2}^{13} \Omega_{k_9 k_7 k_3 k_4}^{04} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_4 -$$



$$a_2 = \epsilon_{k_5}^{k_8}$$

$$a_3 = \epsilon_{k_2 k_6 k_8}^{k_9}$$

$$a_4 = \epsilon_{k_3 k_4 k_7 k_7}$$

Diagram 458:

$$\begin{aligned} \text{PO4.458} &= \lim_{\tau \to \infty} \frac{-(-1)^4}{(2!)} \sum_{k_i} O_{k_1 k_2 k_3 k_4}^{40} \Omega_{k_5 k_6 k_7 k_1}^{31} \Omega_{k_8 k_5 k_2 k_3}^{13} \Omega_{k_9 k_8 k_6 k_4}^{13} \Omega_{k_9 k_7}^{07} \int_0^{\tau} \mathrm{d}\tau_1 \mathrm{d}\tau_2 \mathrm{d}\tau_3 \mathrm{d}\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau$$

Diagram 459:

Diagram 460:

$$PO4.460 = \lim_{\tau \to \infty} \frac{(-1)^4}{(2!)^2} \sum_{k_i} O_{k_1 k_2 k_3 k_4}^{40} \Omega_{k_5 k_6 k_1 k_2}^{22} \Omega_{k_7 k_8 k_5 k_3}^{22} \Omega_{k_9 k_7 k_8 k_4}^{13} \Omega_{k_9 k_6}^{02} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_1) \theta(\tau_1) \theta(\tau_1) \theta(\tau_1) \theta(\tau_1) \theta(\tau_2) \theta(\tau_1) \theta(\tau_$$

$$76 = \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_3 + a_4)(a_3 + a_4)a_4}$$

$$a_1 = \epsilon_{k_1 k_2}^{k_5 k_6}$$

$$a_2 = \epsilon_{k_3 k_5}^{k_7 k_8}$$

$$a_3 = \epsilon_{k_4 k_7 k_8}^{k_9}$$

$$a_4 = \epsilon_{k_6 k_9}$$

$$(934)$$

Diagram 461:

$$PO4.461 = \lim_{\tau \to \infty} \frac{(-1)^4}{(2!)^2} \sum_{k_i} O_{k_1 k_2 k_3 k_4}^{40} \Omega_{k_5 k_6 k_7 k_1}^{31} \Omega_{k_8 k_5}^{11} \Omega_{k_9 k_8 k_2 k_3}^{13} \Omega_{k_9 k_6 k_7 k_4}^{04} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_1) \theta(\tau_1) \theta(\tau_1) \theta(\tau_1) \theta(\tau_1) \theta(\tau_1) \theta(\tau_1) \theta(\tau_1) \theta(\tau_1) \theta(\tau$$

$$T6 = \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_3 + a_4)(a_3 + a_4)a_4}$$

$$a_1 = \epsilon_{k_1}^{k_5 k_6 k_7}$$

$$a_2 = \epsilon_{k_5}^{k_8}$$

$$a_3 = \epsilon_{k_2 k_3 k_8}^{k_9}$$

$$a_4 = \epsilon_{k_1 k_2 k_3 k_8}$$

$$a_4 = \epsilon_{k_3 k_3 k_5 k_8}$$

$$a_4 = \epsilon_{k_4 k_5 k_5 k_5 k_8}$$
(936)

Diagram 462:

$$PO4.462 = \lim_{\tau \to \infty} \frac{-(-1)^4}{(2!)^2} \sum_{k_i} O_{k_1 k_2 k_3 k_4}^{40} \Omega_{k_5 k_6 k_1 k_2}^{22} \Omega_{k_7 k_5}^{11} \Omega_{k_8 k_9 k_7 k_3}^{22} \Omega_{k_8 k_9 k_7 k_3}^{04} \Omega_{k_8 k_9 k_6 k_4}^{04} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_1) \theta(\tau_4 -$$

$$T6 = \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_3 + a_4)(a_3 + a_4)a_4}$$

$$a_1 = \epsilon_{k_1 k_2}^{k_5 k_6}$$

$$a_2 = \epsilon_{k_5}^{k_5}$$

$$a_3 = \epsilon_{k_3 k_7}^{k_8 k_9}$$

$$a_4 = \epsilon_{k_5 k_5 k_5}$$

$$a_4 = \epsilon_{k_5 k_5 k_5 k_5}$$

Diagram 463:

$$PO4.463 = \lim_{\tau \to \infty} \frac{(-1)^4}{(2!)^2} \sum_{k_i} O_{k_1 k_2 k_3 k_4}^{40} \Omega_{k_5 k_6}^{20} \Omega_{k_7 k_8 k_5 k_1}^{22} \Omega_{k_9 k_7 k_8 k_2}^{13} \Omega_{k_9 k_7 k_8 k_4}^{04} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_1) \theta(\tau_1) \theta(\tau_1) \theta(\tau_1)$$

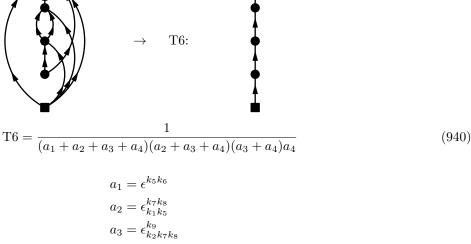


Diagram 464:

$$PO4.464 = \lim_{\tau \to \infty} \frac{-(-1)^4}{(2!)^2} \sum_{k_i} O_{k_1 k_2 k_3 k_4}^{40} \Omega_{k_5 k_6}^{20} \Omega_{k_7 k_5 k_1 k_2}^{13} \Omega_{k_8 k_9 k_7 k_3}^{22} \Omega_{k_8 k_9 k_6 k_4}^{04} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_1) \theta(\tau_4$$

$$a_1 = \epsilon^{k_5 k_6}$$

$$a_2 = \epsilon^{k_7}_{k_1 k_2 k_5}$$

$$a_3 = \epsilon^{k_8 k_9}_{k_3 k_7}$$

$$a_4 = \epsilon_{k_4 k_6 k_8 k_9}$$

Diagram 465:

$$PO4.465 = \lim_{\tau \to \infty} \frac{(-1)^4}{(2!)^2} \sum_{k_i} O_{k_1 k_2 k_3 k_4}^{40} \Omega_{k_5 k_6 k_7 k_1}^{31} \Omega_{k_8 k_5 k_2 k_3}^{13} \Omega_{k_9 k_6}^{11} \Omega_{k_9 k_6 k_7 k_4}^{40} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 -$$

 $a_4 = \epsilon_{k_4 k_6 k_7 k_6}$

Diagram 466:

$$PO4.466 = \lim_{\tau \to \infty} \frac{-(-1)^4}{(2!)^2} \sum_{k_i} O_{k_1 k_2 k_3 k_4}^{40} \Omega_{k_5 k_6 k_7 k_1}^{31} \Omega_{k_8 k_5 k_6 k_2}^{13} \Omega_{k_9 k_8}^{11} \Omega_{k_9 k_7 k_3 k_4}^{04} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_1) \theta(\tau_4$$

$$T6 = \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_3 + a_4)(a_3 + a_4)a_4}$$

$$a_1 = \epsilon_{k_1}^{k_5 k_6 k_7}$$

$$a_2 = \epsilon_{k_2 k_5 k_6}^{k_8}$$

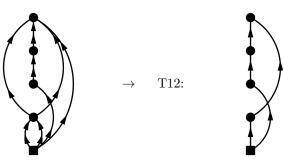
$$a_3 = \epsilon_{k_8}^{k_9}$$

$$a_4 = \epsilon_{k_3 k_4 k_7 k_9}$$

$$(946)$$

Diagram 467:

$$PO4.467 = \lim_{\tau \to \infty} \frac{(-1)^4}{(2!)^2} \sum_{k_i} O_{k_1 k_2 k_3 k_4}^{40} \Omega_{k_5 k_6 k_1 k_2}^{22} \Omega_{k_7 k_3}^{11} \Omega_{k_8 k_7}^{11} \Omega_{k_8 k_5 k_6 k_4}^{40} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_{k_1 k_2}^{k_5 k_6}} e^{-\tau_1 \epsilon_{k_1 k_2}^{k_5$$



$$T12 = \frac{1}{(a_1 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_4)a_4} + \frac{1}{(a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_4)a_4} + \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_4)(a_3 + a_4)(a_4 + a_4)(a_$$

$$a_1 = \epsilon_{k_1 k_2}^{k_5 k_6}$$

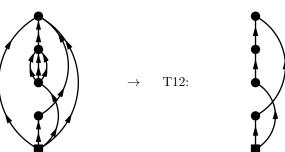
$$a_2 = \epsilon_{k_3}^{k_7}$$

$$a_3 = \epsilon_{k_7}^{k_8}$$

$$a_4 = \epsilon_{k_4 k_5 k_6 k_8}$$

Diagram 468:

$$PO4.468 = \lim_{\tau \to \infty} \frac{-(-1)^4}{(2!)(3!)} \sum_{k_i} O_{k_1 k_2 k_3 k_4}^{40} \Omega_{k_5 k_1}^{11} \Omega_{k_6 k_7 k_8 k_2}^{31} \Omega_{k_9 k_6 k_7 k_8}^{13} \Omega_{k_9 k_5 k_3 k_4}^{04} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_k^2} d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_k^2} d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_k^2} d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_k^2} d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_k^2} d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_k^2} d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_k^2} d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_k^2} d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_k^2} d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_k^2} d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_k^2} d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_k^2} d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_k^2} d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_k^2} d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_k^2} d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_k^2} d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_k^2} d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_k^2} d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_k^2} d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_k^2} d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_k^2} d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_k^2} d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_k^2} d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_k^2} d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_k^2} d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_k^2} d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_k^2} d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_k^2} d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_k^2} d\tau_4 \theta(\tau_4 - \tau_4) \theta(\tau_4 - \tau$$



$$T12 = \frac{1}{(a_1 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_4)a_4} + \frac{1}{(a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_4)a_4} + \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_4)a_4} + \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_3 + a_4)a_4} + \frac{1}{(a_1 + a_3 + a_4)(a_3 + a_4)(a_3 + a_4)a_4} + \frac{1}{(a_1 + a_3 + a_4)(a_3 + a_4)(a_3 + a_4)(a_3 + a_4)(a_3 + a_4)(a_4 + a$$

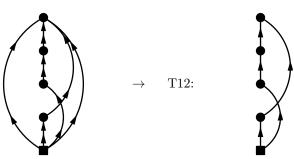
$$a_1 = \epsilon_{k_1}^{k_5}$$

$$a_2 = \epsilon_{k_2}^{k_6 k_7 k_8}$$

$$a_3 = \epsilon_{k_6 k_7 k_8}^{k_9}$$

$$a_4 = \epsilon_{k_3 k_4 k_5 k_9}$$

Diagram 469:



$$T12 = \frac{1}{(a_1 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_4)a_4} + \frac{1}{(a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_4)a_4} + \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_4)(a_3 + a_4)(a_4 + a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_4)(a_4 + a_4)(a$$

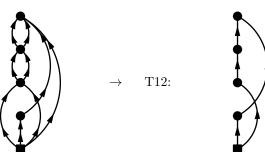
$$a_{1} = \epsilon_{k_{1}}^{k_{5}}$$

$$a_{2} = \epsilon_{k_{2}}^{k_{6}}$$

$$a_{3} = \epsilon_{k_{6}}^{k_{7}}$$

$$a_4 = \epsilon_{k_3 k_4 k_5 k_7}$$

Diagram 470:



$$T12 = \frac{1}{(a_1 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_4)a_4} + \frac{1}{(a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_4)a_4} + \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_4)a_4} + \frac{1}{(a_1 + a_3 + a_4)(a_3 + a_4 + a_3 + a_4)(a_4 + a_4 + a_3 + a_4)(a_4 + a_4 + a_3 + a_4)(a_4 + a_4 + a_4 + a_4)(a_4 + a$$

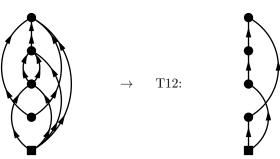
$$a_{1} = \epsilon_{k_{1}}^{k_{5}}$$

$$a_{2} = \epsilon_{k_{2}k_{3}}^{k_{6}k_{7}}$$

$$a_{3} = \epsilon_{k_{6}k_{7}}^{k_{8}k_{9}}$$

$$a_{4} = \epsilon_{k_{4}k_{5}k_{8}k_{9}}$$

Diagram 471:



$$T12 = \frac{1}{(a_1 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_4)a_4} + \frac{1}{(a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_4)a_4} + \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_4)a_4} + \frac{1}{(a_1 + a_3 + a_4)(a_3 + a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_3 + a_4)(a_3 + a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_4)(a_3 + a_4)(a_3 + a_4)(a_4 + a_$$

$$a_1 = \epsilon^{k_5 k_6}$$

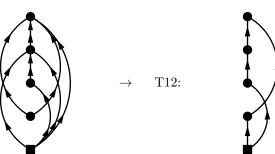
$$a_2 = \epsilon_{k_1 k_2}^{k_7 k_8}$$

$$a_3 = \epsilon_{k_3 k_7 k_8}^{k_9}$$

$$a_4 = \epsilon_{k_4 k_5 k_6 k_6}$$

Diagram 472:

$$PO4.472 = \lim_{\tau \to \infty} \frac{(-1)^4}{(2!)^2} \sum_{k_i} O_{k_1 k_2 k_3 k_4}^{40} \Omega_{k_5 k_6}^{20} \Omega_{k_7 k_1}^{11} \Omega_{k_8 k_7 k_2 k_3}^{13} \Omega_{k_8 k_5 k_6 k_4}^{04} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon^{k_5 k_6}} e^{-\tau_1 \epsilon^{k_5 k$$



$$T12 = \frac{1}{(a_1 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_4)a_4} + \frac{1}{(a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_4)a_4} + \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_4)a_4} + \frac{1}{(a_1 + a_3 + a_4)(a_3 + a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_3 + a_4)(a_3 + a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_2)(a_3$$

$$k_1 = \epsilon^{k_5 k_6}$$

$$a_2 = \epsilon_{k_1}^{k_7}$$

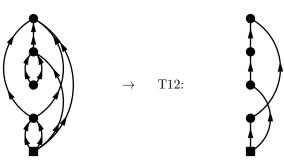
$$a_3 = \epsilon_{k_0 k_0 k_7}^{k_8}$$

$$a_4 = \epsilon_{k_4 k_5 k_6 k_8}$$

Diagram 473:

$$PO4.473 = \lim_{\tau \to \infty} \frac{(-1)^4}{(2!)^3} \sum_{k_i} O_{k_1 k_2 k_3 k_4}^{40} \Omega_{k_5 k_6 k_1 k_2}^{22} \Omega_{k_7 k_8}^{20} \Omega_{k_9 k_7 k_8 k_3}^{13} \Omega_{k_9 k_5 k_6 k_4}^{04} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_{k_1 k_2 k_3 k_4}^{k_5 k_6 k_4 k_4}}$$

$$= \frac{(-1)^4}{(2!)^3} \sum_{k_i} O_{k_1 k_2 k_3 k_4}^{40} \Omega_{k_5 k_6 k_1 k_2}^{22} \Omega_{k_7 k_8}^{20} \Omega_{k_9 k_7 k_8 k_3}^{13} \Omega_{k_9 k_7 k_8 k_3}^{04} \Omega_{k_9 k_5 k_6 k_4}^{40} \left[\frac{1}{\epsilon_{k_1 k_2 k_4 k_9}} \frac{1}{\epsilon_{k_1 k_2 k_3 k_4}} \frac{1}{\epsilon_{k_1 k_2 k_3 k_7 k_8 k_4}} + \frac{1}{\epsilon_{k_1 k_2 k_3 k_7 k_8 k_4}} \frac{1}{\epsilon_{k_1 k_2 k_3 k_4}} \frac{1}{\epsilon_{k_1 k$$



$$T12 = \frac{1}{(a_1 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_4)a_4} + \frac{1}{(a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_4)a_4} + \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_4)(a_3 + a_4)(a_4 + a_1 + a_3 + a_4)(a_4 + a_4 + a_4)(a_4 + a_4)$$

$$a_1 = \epsilon_{k_1 k_2}^{k_5 k_6}$$
$$a_2 = \epsilon^{k_7 k_8}$$

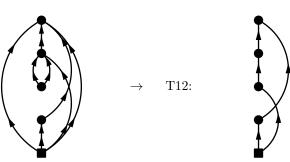
$$a_3 = \epsilon_{k_3 k_7 k_8}^{k_9}$$

$$a_4 = \epsilon_{k_4 k_5 k_6 k_5}$$

$$a_4 = \epsilon_{k_4 k_5 k_6 k_9}$$

Diagram 474:

$$PO4.474 = \lim_{\tau \to \infty} \frac{-(-1)^4}{(2!)^2} \sum_{k_i} O_{k_1 k_2 k_3 k_4}^{40} \Omega_{k_5 k_1}^{11} \Omega_{k_6 k_7}^{20} \Omega_{k_8 k_6 k_7 k_2}^{13} \Omega_{k_8 k_5 k_3 k_4}^{04} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_{k_1}^{k_5}} e^{-$$



$$T12 = \frac{1}{(a_1 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_4)a_4} + \frac{1}{(a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_4)a_4} + \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_4)(a_3 + a_4)(a_4 + a_1 + a_3 + a_4)(a_4 + a_1 + a_4)(a_4 + a_1 + a_4)(a_4 + a_1 + a_4)(a_4 + a_1 + a_4)(a_4 + a_4$$

$$_{1}=\epsilon_{k_{1}}^{k_{5}}$$

$$a_2 = \epsilon^{k_6 k_7}$$

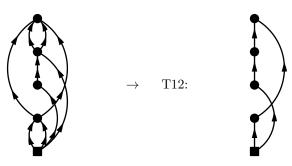
$$a_3 = \epsilon_{k_2 k_6 k_7}^{k_8}$$

$$a_4 = \epsilon_{k_3 k_4 k_5 k_8}$$

Diagram 475:

$$PO4.475 = \lim_{\tau \to \infty} \frac{(-1)^4}{(2!)^3} \sum_{k_i} O_{k_1 k_2 k_3 k_4}^{40} \Omega_{k_5 k_6 k_1 k_2}^{22} \Omega_{k_7 k_3}^{11} \Omega_{k_8 k_9 k_7 k_4}^{22} \Omega_{k_8 k_9 k_5 k_6}^{40} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_{k_1 k_2 k_3 k_4}^{k_5 k_6 k_1 k_2}}$$

$$= \frac{(-1)^4}{(2!)^3} \sum_{k_i} O_{k_1 k_2 k_3 k_4}^{40} \Omega_{k_5 k_6 k_1 k_2}^{22} \Omega_{k_7 k_3}^{11} \Omega_{k_8 k_9 k_7 k_4}^{22} \Omega_{k_8 k_9 k_7 k_4}^{40} \Omega_{k_8 k_9 k_5 k_6}^{40} \left[\frac{1}{\epsilon_{k_1 k_2 k_3 k_4}^{40} \epsilon_{k_1 k_2 k_3 k_4}^{40} \epsilon_{k_5 k_6 k_8 k_9}^{40}} + \frac{\epsilon_{k_1 k_2 k_4 k_7}^{40} \epsilon_{k_1 k_2 k_3 k_4}^{40} \epsilon_{k_1$$



$$T12 = \frac{1}{(a_1 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_4)a_4} + \frac{1}{(a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_4)a_4} + \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_4)a_4} + \frac{1}{(a_1 + a_3 + a_4)(a_3 + a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_4)(a_3 + a_4)(a_3 + a_4)(a_4 + a_4$$

$$a_1 = \epsilon_{k_1 k_2}^{k_5 k_6}$$

$$a_2 = \epsilon_{k_3}^{k_7}$$

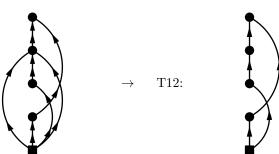
$$a_3 = \epsilon_{k_4 k_7}^{k_8 k_9}$$

$$a_2 - \epsilon_{k_3}$$

$$a_3 - \epsilon^{k_8 k_9}$$

$$a_4 = \epsilon_1 + \epsilon_2$$

Diagram 476:



$$T12 = \frac{1}{(a_1 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_4)a_4} + \frac{1}{(a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_4)a_4} + \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_4)a_4} + \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_3 + a_4)a_4} + \frac{1}{(a_1 + a_3 + a_4)(a_3 + a_4)(a_4 + a_4)(a_4$$

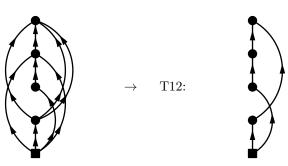
$$a_1 = \epsilon_{k_1}^{k_5}$$

$$a_2 = \epsilon_{k_2}^{k_6}$$

$$a_3 = \epsilon_{k_3 k_4 k_6}^{k_7}$$

$$a_4 = \epsilon_{k_5 k_7}$$

Diagram 477:



$$T12 = \frac{1}{(a_1 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_4)a_4} + \frac{1}{(a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_4)a_4} + \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_4)a_4} + \frac{1}{(a_1 + a_3 + a_4)(a_3 + a_4)(a_4 +$$

$$a_{1} = \epsilon_{k_{1}}^{k_{5}k_{6}k_{7}}$$

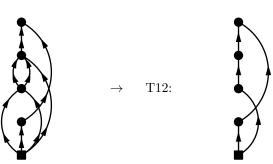
$$a_{2} = \epsilon_{k_{2}}^{k_{8}}$$

$$a_{3} = \epsilon_{k_{3}k_{4}k_{8}}^{k_{9}}$$

 $a_4 = \epsilon_{k_5 k_6 k_7 k_5}$

Diagram 478:

$$PO4.478 = \lim_{\tau \to \infty} \frac{-(-1)^4}{(2!)^2} \sum_{k_i} O_{k_1 k_2 k_3 k_4}^{40} \Omega_{k_1 k_2}^{11} \Omega_{k_6 k_7 k_2 k_3}^{22} \Omega_{k_8 k_6 k_7 k_4}^{13} \Omega_{k_8 k_5}^{02} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_{k_1}^{k_5}} e^{-$$



$$T12 = \frac{1}{(a_1 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_4)a_4} + \frac{1}{(a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_4)a_4} + \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_4)a_4} + \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_3 + a_4)a_4} + \frac{1}{(a_1 + a_3 + a_4)(a_3 + a_4)a_4} + \frac{1}{(a_1 + a_3 + a_4)(a_3 + a_4)(a_3 + a_4)(a_3 + a_4)(a_3 + a_4)(a_4 + a$$

$$a_{1} = \epsilon_{k_{1}}^{k_{5}}$$

$$a_{2} = \epsilon_{k_{2}k_{3}}^{k_{6}k_{7}}$$

$$a_{3} = \epsilon_{k_{4}k_{6}k_{7}}^{k_{8}}$$

$$a_{4} = \epsilon_{k_{5}k_{8}}$$

Diagram 479:

$$PO4.479 = \lim_{\tau \to \infty} \frac{-(-1)^4}{2(2!)} \sum_{k_i} O_{k_1 k_2 k_3 k_4}^{40} \Omega_{k_5 k_1}^{11} \Omega_{k_2 k_3}^{02} \Omega_{k_6 k_4}^{11} \Omega_{k_6 k_5}^{02} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_{k_1}^{k_5}} e^{-\tau_2 \epsilon_{k_2 k_3}} e^{-\tau_3 \epsilon_{k_4}^{k_6}} e^{-\tau_4 \epsilon_{k_5}^{k_6}} e^{-\tau_5 \epsilon_{k_5}^{k_5}^{k_6}} e^{-\tau_5 \epsilon_{k_5}^{k_6}} e^{-\tau_5 \epsilon_{k_5}^{k_6}} e^{-\tau_5$$

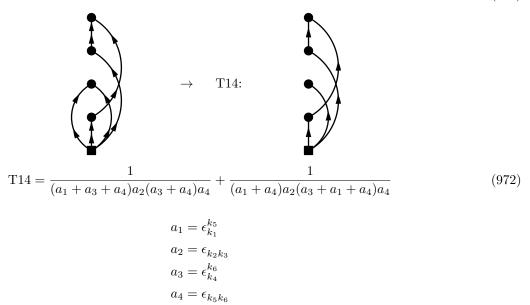


Diagram 480:

$$PO4.480 = \lim_{\tau \to \infty} \frac{-(-1)^4}{(2!)(3!)} \sum_{k_i} O_{k_1 k_2 k_3 k_4}^{40} \Omega_{k_5 k_1}^{11} \Omega_{k_2 k_3}^{02} \Omega_{k_6 k_7 k_8 k_4}^{31} \Omega_{k_6 k_7 k_8 k_5}^{04} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_{k_1}^{k_5}} e^{-\tau_2 \epsilon_{k_2 k_3}} e^{$$

$$T14 = \frac{1}{(a_1 + a_3 + a_4)a_2(a_3 + a_4)a_4} + \frac{1}{(a_1 + a_4)a_2(a_3 + a_1 + a_4)a_4}$$

$$a_1 = \epsilon_{k_1}^{k_5}$$

$$a_2 = \epsilon_{k_2k_3}$$

$$a_3 = \epsilon_{k_4}^{k_6k_7k_8}$$

$$a_4 = \epsilon_{k_5k_6k_7k_8}$$

$$a_4 = \epsilon_{k_5k_6k_7k_8}$$

$$a_4 = \epsilon_{k_5k_6k_7k_8}$$

Diagram 481:

$$PO4.481 = \lim_{\tau \to \infty} \frac{(-1)^4}{(2!)^2} \sum_{k_i} O_{k_1 k_2 k_3 k_4}^{40} \Omega_{k_1 k_2}^{11} \Omega_{k_2 k_3}^{02} \Omega_{k_6 k_7}^{20} \Omega_{k_6 k_7 k_5 k_4}^{04} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_{k_1}^{k_5}} e^{-\tau_2 \epsilon_{k_2 k_3}} e^{-\tau_3 \epsilon_{k_6 k_7}}$$

$$= \frac{(-1)^4}{(2!)^2} \sum_{k_i} O_{k_1 k_2 k_3 k_4}^{40} \Omega_{k_5 k_1}^{11} \Omega_{k_2 k_3}^{02} \Omega_{k_6 k_7}^{20} \Omega_{k_6 k_7 k_5 k_4}^{04} \left[\frac{1}{\epsilon_{k_1 k_4}} \frac{1}{\epsilon_{k_2 k_3}} \frac{1}{\epsilon_{k_4 k_5 k_6 k_7}} + \frac{1}{\epsilon_{k_1 k_4 k_6 k_7}} \frac{1}{\epsilon_{k_2 k_3}} \frac{1}{\epsilon_{k_1 k_4 k_6 k_7}} \right]$$

$$(975)$$

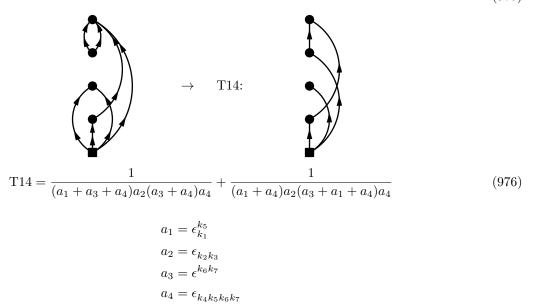


Diagram 482:

$$PO4.482 = \lim_{\tau \to \infty} \frac{-(-1)^4}{(2!)^2} \sum_{k_i} O_{k_1 k_2 k_3 k_4}^{40} \Omega_{k_5 k_6 k_1 k_2}^{22} \Omega_{k_5 k_3}^{02} \Omega_{k_7 k_8}^{20} \Omega_{k_7 k_8}^{04} \Omega_{k_7 k_8 k_6 k_4}^{04} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_{k_1 k_2}^{k_5 k_6} \epsilon_{k_1 k_2}^{60} \Omega_{k_1 k_2 k_3 k_4}^{60} \Omega_{k_1 k_2 k_3 k_4}^{60} \Omega_{k_5 k_6 k_1 k_2}^{60} \Omega_{k_5 k_6}^{60} \Omega_{k_7 k_8 k_6 k_4}^{60} \left[\frac{1}{\epsilon_{k_1 k_2 k_3 k_4 k_7 k_8}^{60} \epsilon_{k_3 k_5}^{60} \epsilon_{k_1 k_2 k_3 k_4}^{60} \epsilon_{k_4 k_6 k_7 k_8}^{60} + \frac{1}{\epsilon_{k_1 k_2 k_3 k_4}^{60} \epsilon_{k_4 k_6 k_7 k_8}^{60} \epsilon_{k_4 k_6 k_7 k_8}^{60} \epsilon_{k_4 k_6 k_7 k_8}^{60} \Omega_{k_7 k_8 k_6 k_4}^{60} \Omega_{k_7 k_8 k_6 k_4}^{60} \right]$$

$$= \frac{-(-1)^4}{(2!)^2} \sum_{k_i} O_{k_1 k_2 k_3 k_4}^{40} \Omega_{k_5 k_6 k_1 k_2}^{20} \Omega_{k_5 k_3}^{60} \Omega_{k_7 k_8}^{60} \Omega_{k_7 k_8}^{60} \Omega_{k_7 k_8 k_6 k_4}^{60} \left[\frac{1}{\epsilon_{k_1 k_2 k_3 k_4}^{60} \epsilon_{k_1 k_2 k_3 k_4}^{60} \epsilon_{k_4 k_6 k_7 k_8}^{60} \epsilon_{k_4 k_6 k_7 k_8}^{60} \epsilon_{k_4 k_6 k_7 k_8}^{60} \right] + \frac{1}{\epsilon_{k_1 k_2 k_3 k_4}^{60} \Omega_{k_7 k_8 k_6 k_4}^{$$

$$T9 = \frac{1}{(a_1 + a_2 + a_4)a_2(a_3 + a_1 + a_2 + a_4)a_4} + \frac{1}{(a_1 + a_2 + a_3 + a_4)a_2(a_3 + a_4)a_4}$$

$$a_1 = \epsilon_{k_1 k_2}^{k_5 k_6}$$

$$a_2 = \epsilon_{k_3 k_5}$$

$$a_3 = \epsilon^{k_7 k_8}$$

$$a_4 = \epsilon_{k_4 k_6 k_7 k_8}$$

$$a_4 = \epsilon_{k_4 k_6 k_7 k_8}$$

$$(978)$$

Diagram 483:

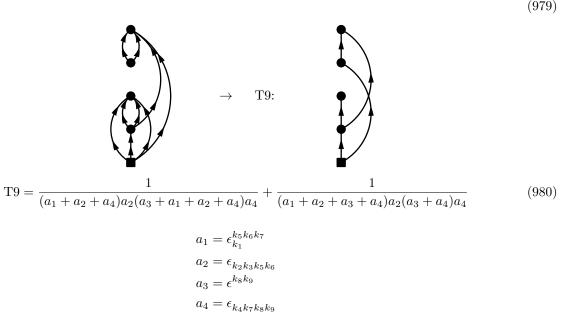


Diagram 484:

$$PO4.484 = \lim_{\tau \to \infty} \frac{(-1)^4}{(2!)^3} \sum_{k_i} O_{k_1 k_2 k_3 k_4}^{40} \Omega_{k_5 k_6 k_7 k_8}^{40} \Omega_{k_5 k_6 k_1 k_2}^{04} \Omega_{k_5 k_6 k_1 k_2}^{11} \Omega_{k_9 k_3}^{04} \Omega_{k_9 k_7 k_8 k_4}^{11} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon^{k_5 k_6 k_5 k_5 k_6 k_5 k_$$

$$T9 = \frac{1}{(a_1 + a_2 + a_4)a_2(a_3 + a_1 + a_2 + a_4)a_4} + \frac{1}{(a_1 + a_2 + a_3 + a_4)a_2(a_3 + a_4)a_4}$$

$$a_1 = \epsilon^{k_5 k_6 k_7 k_8}$$

$$a_2 = \epsilon_{k_1 k_2 k_5 k_6}$$

$$a_3 = \epsilon^{k_9}_{k_3}$$

$$a_4 = \epsilon_{k_4 k_7 k_8 k_9}$$

$$(982)$$

Diagram 485:

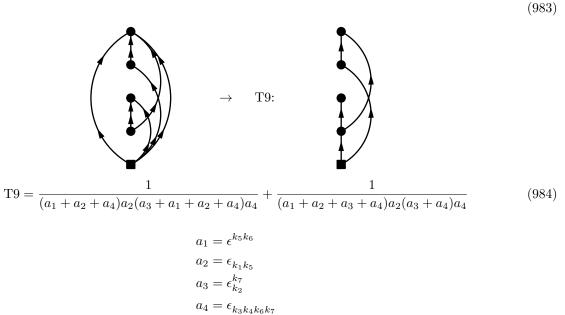


Diagram 486:

$$T9 = \frac{1}{(a_1 + a_2 + a_4)a_2(a_3 + a_1 + a_2 + a_4)a_4} + \frac{1}{(a_1 + a_2 + a_3 + a_4)a_2(a_3 + a_4)a_4}$$

$$a_1 = \epsilon^{k_5 k_6 k_7 k_8}$$

$$a_2 = \epsilon_{k_1 k_5 k_6 k_7}$$

$$a_3 = \epsilon^{k_9}_{k_2}$$

$$a_4 = \epsilon_{k_3 k_4 k_8 k_9}$$

$$(986)$$

Diagram 487:

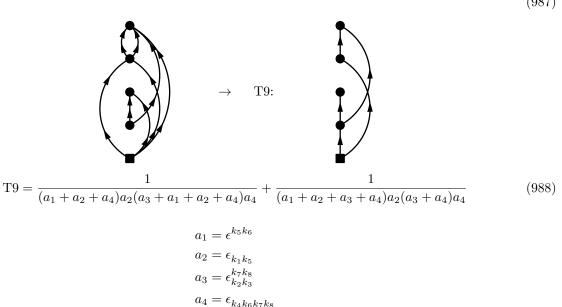


Diagram 488:

$$PO4.488 = \lim_{\tau \to \infty} \frac{-(-1)^4}{(2!)^2} \sum_{k_i} O_{k_1 k_2 k_3 k_4}^{40} \Omega_{k_5 k_6 k_7 k_1}^{31} \Omega_{k_5 k_6}^{02} \Omega_{k_8 k_2}^{11} \Omega_{k_8 k_7 k_3 k_4}^{04} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_{k_1}^{k_5 k_6 k_8}} d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_{k_1}^{k_5 k_6 k_8}} d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_{k_1}^{k_5 k_6 k_8}} d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_{k_1}^{k_5 k_6 k_8}} d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_2) e^{-\tau_1 \epsilon_{k_1}^{k_5 k_6 k_8}} d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_2) e^{-\tau_1 \epsilon_{k_1}^{k_5 k_6 k_8}} d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_2) e^{-\tau_1 \epsilon_{k_1}^{k_5 k_6 k_8}} d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_2) e^{-\tau_1 \epsilon_{k_1}^{k_5 k_6 k_8}} d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_2) e^{-\tau_1 \epsilon_{k_1}^{k_5 k_6 k_8}} d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_2) e^{-\tau_1 \epsilon_{k_1}^{k_5 k_6 k_8}} d\tau_4 \theta(\tau_2 - \tau_2) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_2) e^{-\tau_1 \epsilon_{k_1}^{k_5 k_6 k_8}} d\tau_4 \theta(\tau_2 - \tau_2) \theta(\tau_4 -$$

$$T9 = \frac{1}{(a_1 + a_2 + a_4)a_2(a_3 + a_1 + a_2 + a_4)a_4} + \frac{1}{(a_1 + a_2 + a_3 + a_4)a_2(a_3 + a_4)a_4}$$

$$a_1 = \epsilon_{k_5 k_6}^{k_5 k_6 k_7}$$

$$a_2 = \epsilon_{k_5 k_6}$$

$$a_3 = \epsilon_{k_2}^{k_8}$$

$$a_4 = \epsilon_{k_3 k_4 k_7 k_8}$$

$$(990)$$

Diagram 489:

$$T9 = \frac{1}{(a_1 + a_2 + a_4)a_2(a_3 + a_1 + a_2 + a_4)a_4} + \frac{1}{(a_1 + a_2 + a_3 + a_4)a_2(a_3 + a_4)a_4}$$

$$a_1 = \epsilon_{k_5}^{k_5 k_6 k_7}$$

$$a_2 = \epsilon_{k_5 k_6}$$

$$a_3 = \epsilon_{k_2 k_3}^{k_3 k_9}$$

$$a_4 = \epsilon_{k_4 k_7 k_8 k_9}$$

$$a_4 = \epsilon_{k_4 k_7 k_8 k_9}$$

$$a_4 = \epsilon_{k_4 k_7 k_8 k_9}$$

$$a_5 = \epsilon_{k_5 k_6}$$

$$a_6 = \epsilon_{k_5 k_6}$$

$$a_8 = \epsilon_{k_5 k_8}$$

$$a_8 = \epsilon_{k_5 k_8}$$

Diagram 490:

$$T9 = \frac{1}{(a_1 + a_2 + a_4)a_2(a_3 + a_1 + a_2 + a_4)a_4} + \frac{1}{(a_1 + a_2 + a_3 + a_4)a_2(a_3 + a_4)a_4}$$

$$a_1 = \epsilon_{k_1 k_2}^{k_5 k_6}$$

$$a_2 = \epsilon_{k_3 k_5}$$

$$a_3 = \epsilon_{k_4}^{k_7}$$

$$a_4 = \epsilon_{k_6 k_7}$$

$$(994)$$

Diagram 491:

$$PO4.491 = \lim_{\tau \to \infty} \frac{(-1)^4}{(2!)(3!)} \sum_{k_i} O_{k_1 k_2 k_3 k_4}^{40} \Omega_{k_5 k_6 k_1 k_2}^{22} \Omega_{k_5 k_3}^{02} \Omega_{k_7 k_8 k_9 k_4}^{31} \Omega_{k_7 k_8 k_9 k_6}^{04} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_k^2} d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_k^2} d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_k^2} d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_k^2} d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_k^2} d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_k^2} d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_k^2} d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_k^2} d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_k^2} d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_k^2} d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_k^2} d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_k^2} d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_k^2} d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_k^2} d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_k^2} d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_$$

$$T9 = \frac{1}{(a_1 + a_2 + a_4)a_2(a_3 + a_1 + a_2 + a_4)a_4} + \frac{1}{(a_1 + a_2 + a_3 + a_4)a_2(a_3 + a_4)a_4}$$

$$a_1 = \epsilon_{k_3 k_5}^{k_5 k_6}$$

$$a_2 = \epsilon_{k_3 k_5}$$

$$a_3 = \epsilon_{k_4}^{k_7 k_8 k_9}$$

$$a_4 = \epsilon_{k_6 k_7 k_8 k_9}$$

$$a_4 = \epsilon_{k_6 k_7 k_8 k_9}$$

$$a_5 = \epsilon_{k_5 k_7 k_8 k_9}$$

$$a_6 = \epsilon_{k_6 k_7 k_8 k_9}$$

$$a_8 = \epsilon_{k_6 k_7 k_8 k_9}$$

$$a_9 = \epsilon_{k_6 k_7 k_8 k_9}$$

$$a_9 = \epsilon_{k_6 k_7 k_8 k_9}$$

$$a_9 = \epsilon_{k_6 k_7 k_8 k_9}$$

Diagram 492:

$$PO4.492 = \lim_{\tau \to \infty} \frac{(-1)^4}{(2!)^3} \sum_{k_i} O_{k_1 k_2 k_3 k_4}^{40} \Omega_{k_5 k_6 k_7 k_1}^{31} \Omega_{k_5 k_2}^{02} \Omega_{k_8 k_9 k_3 k_4}^{22} \Omega_{k_8 k_9 k_3 k_4}^{04} \Omega_{k_8 k_9 k_6 k_7}^{04} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_{k_1}^{k_5 k_4}} d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_{k_1}^{k_5 k_4}} d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_{k_1}^{k_5 k_4}} d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_{k_1}^{k_5 k_4}} d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_{k_1}^{k_5 k_4}} d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_{k_1}^{k_5 k_4}} d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_{k_1}^{k_5 k_4}} d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_{k_1}^{k_5 k_4}} d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_{k_1}^{k_5 k_4}} d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_{k_1}^{k_5 k_4}} d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_{k_1}^{k_5 k_4}} d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_{k_1}^{k_5 k_4}} d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_{k_1}^{k_5 k_4}} d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_{k_1}^{k_5 k_5}} d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_2) \theta($$

$$T9 = \frac{1}{(a_1 + a_2 + a_4)a_2(a_3 + a_1 + a_2 + a_4)a_4} + \frac{1}{(a_1 + a_2 + a_3 + a_4)a_2(a_3 + a_4)a_4}$$

$$a_1 = \epsilon_{k_5 k_6 k_7}^{k_5 k_6 k_7}$$

$$a_2 = \epsilon_{k_2 k_5}$$

$$a_3 = \epsilon_{k_3 k_4}^{k_5 k_6}$$

$$a_4 = \epsilon_{k_6 k_7 k_8 k_9}$$

$$a_4 = \epsilon_{k_6 k_7 k_8 k_9}$$

$$(998)$$

Diagram 493:

$$PO4.493 = \lim_{\tau \to \infty} \frac{-(-1)^4}{(2!)^2} \sum_{k_i} O_{k_1 k_2 k_3 k_4}^{40} \Omega_{k_5 k_6 k_7 k_1}^{31} \Omega_{k_5 k_6 k_2 k_3}^{04} \Omega_{k_8 k_4}^{11} \Omega_{k_8 k_7}^{02} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_{k_1}^{k_5 k_6 k_4}}$$

$$= \frac{-(-1)^4}{(2!)^2} \sum_{k_i} O_{k_1 k_2 k_3 k_4}^{40} \Omega_{k_5 k_6 k_7 k_1}^{31} \Omega_{k_5 k_6 k_2 k_3}^{04} \Omega_{k_8 k_4}^{11} \Omega_{k_8 k_7}^{02} \left[\frac{1}{\epsilon_{k_1 k_2 k_3 k_8}} \frac{1}{\epsilon_{k_1 k_2 k_3 k_8}} \frac{1}{\epsilon_{k_1 k_2 k_3 k_4}} \frac{1}{\epsilon_{$$

$$T9 = \frac{1}{(a_1 + a_2 + a_4)a_2(a_3 + a_1 + a_2 + a_4)a_4} + \frac{1}{(a_1 + a_2 + a_3 + a_4)a_2(a_3 + a_4)a_4}$$

$$a_1 = \epsilon_{k_1}^{k_5 k_6 k_7}$$

$$a_2 = \epsilon_{k_2 k_3 k_5 k_6}$$

$$a_3 = \epsilon_{k_4}^{k_8}$$

$$a_4 = \epsilon_{k_7 k_8}$$

$$a_4 = \epsilon_{k_7 k_8}$$

$$(1000)$$

Diagram 494:

Diagram 495:

$$PO4.495 = \lim_{\tau \to \infty} \frac{-(-1)^4}{(2!)^2} \sum_{k_i} O_{k_1 k_2 k_3 k_4}^{40} \Omega_{k_5 k_6 k_7 k_8}^{40} \Omega_{k_5 k_1}^{02} \Omega_{k_9 k_6 k_2 k_3}^{13} \Omega_{k_9 k_7 k_8 k_4}^{04} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_4$$

$$T5 = \frac{1}{(a_1 + a_2 + a_3 + a_4)a_2(a_3 + a_4)a_4}$$

$$a_1 = \epsilon^{k_5 k_6 k_7 k_8}$$

$$a_2 = \epsilon_{k_1 k_5}$$

$$a_3 = \epsilon^{k_9}_{k_2 k_3 k_6}$$

$$a_4 = \epsilon_{k_4 k_7 k_8 k_9}$$

$$(1004)$$

Diagram 496:

$$PO4.496 = \lim_{\tau \to \infty} \frac{(-1)^4}{(2!)^2} \sum_{k_i} O_{k_1 k_2 k_3 k_4}^{40} \Omega_{k_5 k_6 k_7 k_8}^{40} \Omega_{k_5 k_6}^{22} \Omega_{k_5 k_1}^{13} \Omega_{k_9 k_6 k_7 k_2}^{40} \Omega_{k_9 k_8 k_3 k_4}^{60} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau$$

Diagram 497:

$$PO4.497 = \lim_{\tau \to \infty} \frac{(-1)^4}{(2!)} \sum_{k_i} O_{k_1 k_2 k_3 k_4}^{40} \Omega_{k_5 k_6 k_7 k_1}^{31} \Omega_{k_5 k_2}^{02} \Omega_{k_8 k_6}^{11} \Omega_{k_8 k_7 k_3 k_4}^{04} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_3) e^{-\tau_1} d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_3) e^{-\tau_1} d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_3) e^{-\tau_1} d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_3) e^{-\tau_1} d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_3) e^{-\tau_1} d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_3) e^{-\tau_1} d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau$$

$$T5 = \frac{1}{(a_1 + a_2 + a_3 + a_4)a_2(a_3 + a_4)a_4}$$

$$a_1 = \epsilon_{k_1}^{k_5 k_6 k_7}$$

$$a_2 = \epsilon_{k_2 k_5}$$

$$a_3 = \epsilon_{k_6}^{k_8}$$

$$a_4 = \epsilon_{k_3 k_4 k_7 k_8}$$

$$(1008)$$

Diagram 498:

 $a_4 = \epsilon_{k_1 k_2 k_3 k_4}$

Diagram 499:

$$PO4.499 = \lim_{\tau \to \infty} \frac{(-1)^4}{(2!)^3} \sum_{k_i} O_{k_1 k_2 k_3 k_4}^{40} \Omega_{k_5 k_6 k_7 k_1}^{31} \Omega_{k_2 k_3}^{02} \Omega_{k_8 k_9 k_5 k_6}^{22} \Omega_{k_8 k_9 k_7 k_4}^{04} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_{k_1}^{k_5 k_6}}$$

$$= \frac{(-1)^4}{(2!)^3} \sum_{k_i} \frac{O_{k_1 k_2 k_3 k_4}^{40} \Omega_{k_5 k_6 k_7 k_1}^{31} \Omega_{k_2 k_3}^{02} \Omega_{k_8 k_9 k_5 k_6}^{22} \Omega_{k_8 k_9 k_7 k_4}^{44}}{\epsilon_{k_1 k_4} \epsilon_{k_2 k_3} \epsilon_{k_5 k_6 k_4 k_7} \epsilon_{k_4 k_7 k_8 k_9}}$$

$$(1011)$$

$$T1 = \frac{1}{(a_1 + a_3 + a_4)a_2(a_3 + a_4)a_4}$$
 (1012)

$$a_{1} = \epsilon_{k_{1}}^{k_{5}k_{6}k_{7}}$$

$$a_{2} = \epsilon_{k_{2}k_{3}}$$

$$a_{3} = \epsilon_{k_{5}k_{6}}^{k_{8}k_{9}}$$

$$a_{4} = \epsilon_{k_{5}k_{7}k_{8}k_{9}}$$

Diagram 500:

Diagram 501:

 $a_4 = \epsilon_{k_4 k_7 k_8 k_9}$

Diagram 502:

$$PO4.502 = \lim_{\tau \to \infty} \frac{(-1)^4}{(2!)^3} \sum_{k_i} O_{k_1 k_2 k_3 k_4}^{40} \Omega_{k_5 k_6 k_7 k_1}^{31} \Omega_{k_2 k_3}^{02} \Omega_{k_8 k_9 k_5 k_4}^{22} \Omega_{k_8 k_9 k_6 k_7}^{07} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_{k_1}^{k_5 k_6}}$$

$$= \frac{(-1)^4}{(2!)^3} \sum_{k_i} \frac{O_{k_1 k_2 k_3 k_4}^{40} \Omega_{k_5 k_6 k_7 k_5}^{31} \Omega_{k_2 k_3}^{02} \Omega_{k_8 k_9 k_5 k_4}^{22} \Omega_{k_8 k_9 k_6 k_7}^{24}}{\epsilon_{k_1 k_4} \epsilon_{k_2 k_3} \epsilon_{k_4 k_5 k_6 k_7} \epsilon_{k_6 k_7 k_8 k_9}}$$

$$\rightarrow T1:$$

$$T1 = \frac{1}{(a_1 + a_3 + a_4) a_2 (a_3 + a_4) a_4}$$

$$a_1 = \epsilon_{k_1}^{k_5 k_6 k_7}$$

$$a_2 = \epsilon_{k_2 k_3}$$

$$a_3 = \epsilon_{k_4 k_5}^{k_8 k_9}$$

$$a_3 = \epsilon_{k_4 k_5}^{k_8 k_9}$$

$$a_3 = \epsilon_{k_4 k_5}^{k_8 k_9}$$

 $a_4 = \epsilon_{k_e k_\pi k_\circ k_e}$

Diagram 503:

Diagram 504:

$$PO4.504 = \lim_{\tau \to \infty} \frac{(-1)^4}{(2!)^2} \sum_{k_i} O_{k_1 k_2 k_3 k_4}^{40} \Omega_{k_5 k_1}^{11} \Omega_{k_2 k_3}^{02} \Omega_{k_6 k_7 k_5 k_4}^{22} \Omega_{k_6 k_7}^{02} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_{k_1}^{k_5}} e^{-\tau_2 \epsilon_{k_2 k_3}} e^{-\tau_3 \epsilon_{k_4 k_5}^{k_6 k_7}}$$

$$= \frac{(-1)^4}{(2!)^2} \sum_{k_i} \frac{O_{k_1 k_2 k_3 k_4}^{40} \Omega_{k_5 k_1}^{11} \Omega_{k_2 k_3}^{02} \Omega_{k_6 k_7 k_5 k_4}^{22} \Omega_{k_6 k_7}^{02}}{\epsilon_{k_1 k_4} \epsilon_{k_2 k_3} \epsilon_{k_4 k_5} \epsilon_{k_6 k_7}}$$

$$(1021)$$

$$T1 = \frac{1}{(a_1 + a_3 + a_4)a_2(a_3 + a_4)a_4}$$

$$a_1 = \epsilon_{k_1}^{k_5}$$

$$a_2 = \epsilon_{k_2k_3}$$

$$a_3 = \epsilon_{k_4k_5}^{k_6k_7}$$

$$a_4 = \epsilon_{k_6k_7}$$

$$a_4 = \epsilon_{k_6k_7}$$

$$(1022)$$

Diagram 505:

$$PO4.505 = \lim_{\tau \to \infty} \frac{(-1)^4}{(2!)^2} \sum_{k_i} O_{k_1 k_2 k_3 k_4}^{40} \Omega_{k_5 k_6}^{20} \Omega_{k_1 k_2}^{13} \Omega_{k_7 k_5 k_6 k_3}^{13} \Omega_{k_7 k_4}^{22} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon^{k_5 k_6}} e^{-\tau_2 \epsilon_{k_1 k_2}} e^{-\tau_3 \epsilon_{k_3 k_4}^{k_3}} e^{-\tau_3 \epsilon_{k_3 k_4}^{k_3}}$$

$$= \frac{(-1)^4}{(2!)^2} \sum_{k_i} \frac{O_{k_1 k_2 k_3 k_4}^{40} \Omega_{k_3 k_6}^{20} \Omega_{k_7 k_5 k_6 k_3}^{12} \Omega_{k_7 k_5 k_6 k_3}^{12} \Omega_{k_7 k_5}^{22}}{\epsilon_{k_3 k_5 k_6 k_4}^{40} \epsilon_{k_3 k_4}^{40}}$$

$$\to T1:$$

$$T1 = \frac{1}{(a_1 + a_3 + a_4) a_2 (a_3 + a_4) a_4}$$

$$a_1 = \epsilon^{k_5 k_6}$$

$$a_2 = \epsilon_{k_1 k_2}$$

$$a_3 = \epsilon_{k_3 k_5 k_6}^{k_3}$$

$$a_3 = \epsilon_{k_3 k_5 k_6}^{k_5}$$

Diagram 506:

$$T1 = \frac{1}{(a_1 + a_3 + a_4)a_2(a_3 + a_4)a_4}$$

$$a_1 = \epsilon_{k_1}^{k_5 k_6 k_7}$$

$$a_2 = \epsilon_{k_2 k_3}$$

$$a_3 = \epsilon_{k_5 k_6 k_7}^{k_8}$$

$$a_4 = \epsilon_{k_4 k_5}$$

$$a_4 = \epsilon_{k_4 k_5}$$
(1026)

Diagram 507:

$$T1 = \frac{1}{(a_1 + a_3 + a_4)a_2(a_3 + a_4)a_4}$$

$$a_1 = \epsilon_{k_1}^{k_5}$$

$$a_2 = \epsilon_{k_2k_3}$$

$$a_3 = \epsilon_{k_5}^{k_6}$$

$$a_4 = \epsilon_{k_4k_5}$$
(1028)

Diagram 508:

$$T1 = \frac{1}{(a_1 + a_3 + a_4)a_2(a_3 + a_4)a_4}$$
 (1030)

$$a_1 = \epsilon_{k_1}^{k_5}$$

$$a_2 = \epsilon_{k_2 k_3}$$

$$a_3 = \epsilon_{k_5}^{k_6 k_7 k_8}$$

$$a_4 = \epsilon_{k_4 k_6 k_7 k_8}$$

Diagram 509:

Diagram 510:

 $a_4 = \epsilon_{k_4 k_7 k_8 k_9}$

 $a_2 = \epsilon_{k_3 k_5}$ $a_3 = \epsilon_{k_6}^{k_7 k_8 k_9}$

Diagram 511:

$$\begin{aligned} \text{PO4.511} &= \lim_{\tau \to \infty} \frac{(-1)^4}{(2!)^3} \sum_{k_i} O_{k_1 k_2 k_3 k_4}^{40} \Omega_{k_5 k_6 k_7 k_1}^{31} \Omega_{k_5 k_2}^{02} \Omega_{k_5 k_9 k_6 k_7}^{22} \Omega_{k_8 k_9 k_3 k_4}^{07} \frac{1}{4} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_{k_1}^{k_5 k_6}} \\ &= \frac{(-1)^4}{(2!)^3} \sum_{k_i} \frac{O_{k_1 k_2 k_3 k_4}^{40} \Omega_{k_5 k_6 k_7 k_1}^{31} \Omega_{k_5 k_2}^{02} \Omega_{k_5 k_9 k_5 k_7}^{22} \Omega_{k_5 k_9 k_5 k_6}^{22} \Omega_{k_5 k_9 k_5 k_4}^{22}}{\epsilon_{k_1 k_2 k_3 k_4} \epsilon_{k_2 k_5} \epsilon_{k_6 k_7 k_3 k_4} \epsilon_{k_3 k_4 k_5 k_6}} \end{aligned}$$

$$(1035)$$

$$T5 = \frac{1}{(a_1 + a_2 + a_3 + a_4) a_2(a_3 + a_4) a_4}$$

$$a_1 = \epsilon_{k_1}^{k_5 k_6 k_7}$$

$$a_2 = \epsilon_{k_2 k_5}$$

$$a_3 = \epsilon_{k_5 k_5}^{k_5 k_6}$$

$$a_3 = \epsilon_{k_5 k_5}^{k_5 k_6}$$

$$a_3 = \epsilon_{k_5 k_6}^{k_5 k_6}$$

 $a_4 = \epsilon_{k_2 k_4 k_8 k_6}$

Diagram 512:

$$PO4.512 = \lim_{\tau \to \infty} \frac{(-1)^4}{(2!)^2} \sum_{k_i} O_{k_1 k_2 k_3 k_4}^{40} \Omega_{k_5 k_6 k_7 k_1}^{31} \Omega_{k_5 k_6 k_2 k_3}^{04} \Omega_{k_5 k_6 k_2 k_3}^{11} \Omega_{k_5 k_4}^{02} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_{k_1}^{k_5 k_6 k_7}} e^{-\tau_1 \epsilon_{k_1}^$$

Diagram 513:

$$PO4.513 = \lim_{\tau \to \infty} \frac{(-1)^4}{(2!)^3} \sum_{k_i} O_{k_1 k_2 k_3 k_4}^{40} \Omega_{k_5 k_6 k_7 k_8}^{40} \Omega_{k_5 k_6 k_1 k_2}^{04} \Omega_{k_5 k_6 k_1 k_2}^{13} \Omega_{k_9 k_7 k_8 k_3}^{02} \Omega_{k_9 k_4}^{02} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon^{k_5 k_6 k_5 k_6 k_$$

Diagram 514:

Diagram 515:

$$T5 = \frac{1}{(a_1 + a_2 + a_3 + a_4)a_2(a_3 + a_4)a_4}$$

$$a_1 = \epsilon^{k_5 k_6}$$

$$a_2 = \epsilon_{k_1 k_5}$$

$$a_3 = \epsilon^{k_7}_{k_2 k_3 k_6}$$

$$a_4 = \epsilon_{k_4 k_7}$$
(1044)

Diagram 516:

Diagram 517:

$$PO4.517 = \lim_{\tau \to \infty} \frac{(-1)^4}{(2!)^3} \sum_{k_i} O_{k_1 k_2 k_3 k_4}^{40} \Omega_{k_5 k_6 k_7 k_1}^{31} \Omega_{k_5 k_6}^{02} \Omega_{k_8 k_9 k_7 k_2}^{22} \Omega_{k_8 k_9 k_3 k_4}^{04} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_{k_1}^{k_5 k_6}} \\ = \frac{(-1)^4}{(2!)^3} \sum_{k_i} \frac{O_{k_1 k_2 k_3 k_4}^{40} \Omega_{k_5 k_6 k_7 k_1}^{31} \Omega_{k_5 k_6}^{02} \Omega_{k_5 k_9 k_7 k_2}^{22} \Omega_{k_8 k_9 k_3 k_4}^{04}}{\epsilon_{k_1 k_2 k_3 k_4} \epsilon_{k_5 k_6}} \frac{O_{k_5 k_6}^{22} \Omega_{k_5 k_9 k_7 k_2}^{22} \Omega_{k_8 k_9 k_3 k_4}^{04}}{\epsilon_{k_1 k_2 k_3 k_4} \epsilon_{k_5 k_6}} \\ \to T5 = \frac{1}{(a_1 + a_2 + a_3 + a_4) a_2 (a_3 + a_4) a_4}$$

$$a_1 = \epsilon_{k_5 k_6 k_7}^{k_5 k_6} \epsilon_{k_5 k_6}$$

$$a_2 = \epsilon_{k_5 k_6}$$

$$a_3 = \epsilon_{k_5 k_6}^{k_5 k_9}$$

$$a_4 = \epsilon_{k_5 k_4 k_5}$$

Diagram 518:

$$PO4.518 = \lim_{\tau \to \infty} \frac{(-1)^4}{(2!)^2} \sum_{k_i} O_{k_1 k_2 k_3 k_4}^{40} \Omega_{k_5 k_6 k_7 k_1}^{31} \Omega_{k_5 k_6}^{02} \Omega_{k_8 k_7 k_2 k_3}^{13} \Omega_{k_5 k_4}^{02} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_{k_1}^{k_5 k_6 k_7}} e^{-\tau_1 \epsilon_{k_1}^{k_5 k_6$$

Diagram 519:

Diagram 520:

$$PO4.520 = \lim_{\tau \to \infty} \frac{(-1)^4}{(2!)^3} \sum_{k_i} O_{k_1 k_2 k_3 k_4}^{40} \Omega_{k_5 k_6 k_7 k_1}^{31} \Omega_{k_5 k_6 k_2 k_3}^{04} \Omega_{k_8 k_9 k_7 k_4}^{22} \Omega_{k_8 k_9}^{02} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_{k_1}^{k_5 k_6}} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_{k_1}^{k_5 k_6}} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_{k_1}^{k_5 k_6}} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_{k_1}^{k_5 k_6}} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_{k_1}^{k_5 k_6}} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_{k_1}^{k_5 k_6}} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_{k_1}^{k_5 k_6}} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_{k_1}^{k_5 k_6}} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_{k_1}^{k_5 k_6}} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_{k_1}^{k_5 k_6}} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_{k_1}^{k_5 k_6}} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_1) \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_2 - \tau_1) \theta(\tau$$

Diagram 521:

$$\begin{aligned} \text{PO4.521} &= \lim_{\tau \to \infty} \frac{(-1)^4}{(2!)^2} \sum_{k_i} O_{k_1 k_2 k_3 k_4}^{40} \Omega_{k_5 k_6 k_1 k_2}^{22} \Omega_{k_5 k_6}^{01} \Omega_{k_7 k_4}^{01} \int_0^{\tau} \mathrm{d}\tau_1 \mathrm{d}\tau_2 \mathrm{d}\tau_3 \mathrm{d}\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_{k_1 k_2}^{k_5 k_6}} e^{-\tau_2 \epsilon_{k_5 k_6}} e^{-\tau_3 \epsilon_{k_3}^{k_7}} \\ &= \frac{(-1)^4}{(2!)^2} \sum_{k_i} \frac{O_{k_1 k_2 k_3 k_4}^{40} \Omega_{k_5 k_6 k_1 k_2}^{22} \Omega_{k_5 k_6}^{02} \Omega_{k_7 k_3}^{11} \Omega_{k_7 k_4}^{02}}{\epsilon_{k_1 k_2}} \\ &\rightarrow \qquad \text{T4:} \end{aligned}$$

$$T4 = \frac{1}{(a_1 + a_2) a_2 (a_3 + a_4) a_4}$$

$$a_1 = \epsilon_{k_1 k_2}^{k_5 k_6}$$

$$a_2 = \epsilon_{k_5 k_6}$$

$$a_3 = \epsilon_{k_3}^{k_7}$$

$$a_4 = \epsilon_{k_1 k_7}$$

$$a_4 = \epsilon_{k_1 k_7}$$

Diagram 522:

$$T4 = \frac{1}{(a_1 + a_2)a_2(a_3 + a_4)a_4}$$

$$a_1 = \epsilon_{k_1 k_2}^{k_5 k_6}$$

$$a_2 = \epsilon_{k_5 k_6}$$

$$a_3 = \epsilon_{k_3}^{k_7 k_8 k_9}$$

$$a_4 = \epsilon_{k_4 k_7 k_8 k_9}$$
(1058)

Diagram 523:

Diagram 524:

$$PO4.524 = \lim_{\tau \to \infty} \frac{(-1)^4}{(2!)^2} \sum_{k_i} O_{k_1 k_2 k_3 k_4}^{40} \Omega_{k_5 k_1}^{11} \Omega_{k_5 k_2}^{02} \Omega_{k_6 k_7}^{20} \Omega_{k_6 k_7 k_3 k_4}^{44} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_{k_1}^k \epsilon_2 - \tau_2 \epsilon_{k_2 k_5}} e^{-\tau_3 \epsilon^{k_6 k_7}}$$

$$= \frac{(-1)^4}{(2!)^2} \sum_{k_i} \frac{O_{k_1 k_2 k_3 k_4}^{40} \Omega_{k_5 k_1}^{11} \Omega_{k_5 k_2}^{02} \Omega_{k_6 k_7}^{20} \Omega_{k_6 k_7 k_3 k_4}^{40}}{\epsilon_{k_1 k_2} \epsilon_{k_2 k_5} \epsilon_{k_3 k_4} \epsilon_{k_3 k_4 k_6 k_7}}$$

$$T = \frac{1}{(a_1 + a_2) a_2 (a_3 + a_4) a_4}$$

$$a_1 = \epsilon_{k_1}^{k_5}$$

$$a_2 = \epsilon_{k_2 k_5}$$

$$a_3 = \epsilon^{k_6 k_7}$$

$$a_4 = \epsilon_{k_3 k_4 k_6 k_7}$$

$$a_4 = \epsilon_{k_3 k_4 k_6 k_7}$$

$$a_4 = \epsilon_{k_3 k_4 k_6 k_7}$$

Diagram 525:

$$PO4.525 = \lim_{\tau \to \infty} \frac{(-1)^4}{(2!)^4} \sum_{k_i} O_{k_1 k_2 k_3 k_4}^{40} \Omega_{k_1 k_2}^{02} \Omega_{k_5 k_6 k_7 k_8}^{40} \Omega_{k_5 k_6}^{02} \Omega_{k_7 k_8 k_3 k_4}^{40} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_2) e^{-\tau_1 \epsilon_{k_1 k_2}} e^{-\tau_2 \epsilon^{k_5 k_6 k_7 k_8}}$$

$$= \frac{(-1)^4}{(2!)^4} \sum_{k_i} \frac{O_{k_1 k_2 k_3 k_4}^{40} \Omega_{k_1 k_2}^{02} \Omega_{k_5 k_6 k_7 k_8}^{40} \Omega_{k_5 k_6}^{02} \Omega_{k_7 k_8 k_3 k_4}^{00}}{\epsilon_{k_1 k_2} \epsilon_{k_3 k_4} \epsilon_{k_5 k_6}} \frac{O_{k_5 k_6 k_7 k_8}^{20} \Omega_{k_7 k_8 k_3 k_4}^{04}}{\epsilon_{k_3 k_4 k_7 k_8}}$$

$$T2 = \frac{1}{a_1 (a_2 + a_3 + a_4) a_3 a_4}$$

$$a_1 = \epsilon_{k_1 k_2}$$

$$a_2 = \epsilon^{k_5 k_6 k_7 k_8}$$

$$a_3 = \epsilon_{k_5 k_6}$$

$$a_4 = \epsilon_{k_3 k_4 k_7 k_8}$$

Diagram 526:

$$a_1 = \epsilon_{k_1 k_2}^{k_5 k_6}$$

$$a_2 = \epsilon_{k_3 k_4}^{k_7 k_8}$$

$$a_3 = \epsilon_{k_5 k_7}$$

Diagram 527:

$$PO4.527 = \lim_{\tau \to \infty} \frac{-(-1)^4}{4(2!)^2} \sum_{k_i} O_{k_1 k_2 k_3 k_4}^{40} \Omega_{k_5 k_6}^{20} \Omega_{k_7 k_8}^{20} \Omega_{k_7 k_5 k_1 k_2}^{04} \Omega_{k_8 k_6 k_3 k_4}^{04} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_2)$$

$$T10 = \frac{1}{(a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)a_3a_4} + \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_3 + a_4)a_3a_4}$$

$$a_1 = \epsilon^{k_5 k_6}$$

$$a_2 = \epsilon^{k_7 k_8}$$

$$a_3 = \epsilon_{k_1 k_2 k_5 k_7}$$

$$a_4 = \epsilon_{k_3 k_4 k_5 k_8}$$

$$a_4 = \epsilon_{k_3 k_4 k_5 k_8}$$
(1068)

Diagram 528:

$$PO4.528 = \lim_{\tau \to \infty} \frac{-(-1)^4}{(2!)^2} \sum_{k_i} O_{k_1 k_2 k_3 k_4}^{40} \Omega_{k_5 k_6 k_1 k_2}^{22} \Omega_{k_7 k_8}^{20} \Omega_{k_7 k_5}^{02} \Omega_{k_8 k_6 k_3 k_4}^{04} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_2) \theta$$

Diagram 529:

$$PO4.529 = \lim_{\tau \to \infty} \frac{(-1)^4}{(2!)^3} \sum_{k_i} O_{k_1 k_2 k_3 k_4}^{40} \Omega_{k_5 k_6 k_1 k_2}^{22} \Omega_{k_7 k_8 k_9 k_5}^{31} \Omega_{k_7 k_8 k_3 k_4}^{04} \Omega_{k_9 k_6}^{02} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_1) \theta(\tau_4 -$$

$$T7 = \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_3 + a_4)a_3a_4}$$

$$a_1 = \epsilon_{k_1 k_2}^{k_5 k_6}$$

$$a_2 = \epsilon_{k_5}^{k_7 k_8 k_9}$$

$$a_3 = \epsilon_{k_3 k_4 k_7 k_8}$$

$$a_4 = \epsilon_{k_6 k_9}$$

$$(1072)$$

Diagram 530:

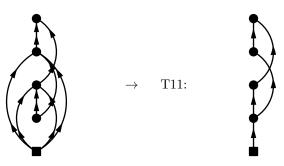
$$PO4.530 = \lim_{\tau \to \infty} \frac{(-1)^4}{(2!)^3} \sum_{k_i} O_{k_1 k_2 k_3 k_4}^{40} \Omega_{k_5 k_6}^{20} \Omega_{k_7 k_8 k_9 k_5}^{31} \Omega_{k_7 k_8 k_1 k_2}^{04} \Omega_{k_9 k_6 k_3 k_4}^{40} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_1) \theta(\tau_4 -$$

Diagram 531:

$$PO4.531 = \lim_{\tau \to \infty} \frac{(-1)^4}{(2!)^3} \sum_{k_i} O_{k_1 k_2 k_3 k_4}^{40} \Omega_{k_5 k_6 k_1 k_2}^{22} \Omega_{k_7 k_8 k_9 k_5}^{31} \Omega_{k_7 k_8 k_9 k_5}^{02} \Omega_{k_9 k_6 k_3 k_4}^{04} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_1)$$

Diagram 532:

$$PO4.532 = \lim_{\tau \to \infty} \frac{-(-1)^4}{2(2!)^2} \sum_{k_i} O_{k_1 k_2 k_3 k_4}^{40} \Omega_{k_5 k_6}^{20} \Omega_{k_7 k_5 k_1 k_2}^{13} \Omega_{k_8 k_6 k_3 k_4}^{13} \Omega_{k_8 k_7}^{02} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) d\tau_4 \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) d\tau_4 \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) d\tau_4 \theta(\tau_4$$



$$T11 = \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_4)(a_3 + a_2 + a_4)a_4} + \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_3 + a_4)(a_3 + a_4)a_4}$$
 (1078)
$$a_1 = \epsilon^{k_5 k_6}$$

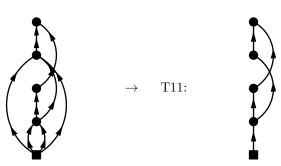
$$a_1 = \epsilon$$
$$a_2 = \epsilon_{k_1 k_2 k_5}^{k_7}$$

$$a_3 = \epsilon_{k_3 k_4 k_6}^{k_8}$$

$$a_4 = \epsilon_{k_7 k_8}$$

Diagram 533:

$$PO4.533 = \lim_{\tau \to \infty} \frac{-(-1)^4}{(2!)^2} \sum_{k_i} O_{k_1 k_2 k_3 k_4}^{40} \Omega_{k_5 k_6 k_1 k_2}^{22} \Omega_{k_7 k_5}^{11} \Omega_{k_8 k_6 k_3 k_4}^{13} \Omega_{k_8 k_7}^{02} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) d\tau_4 \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) d\tau_4 \theta(\tau_4 - \tau_4) \theta(\tau_$$



$$T11 = \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_4)(a_3 + a_2 + a_4)a_4} + \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_3 + a_4)(a_3 + a_4)a_4}$$
(1080)

$$a_1 = \epsilon_{k_1 k_2}^{k_5 k_6}$$

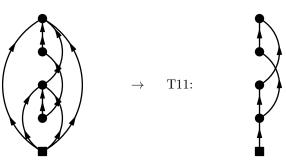
$$a_2 = \epsilon_{k_5}^{k_7}$$

$$a_3 = \epsilon_{k_3 k_4 k_6}^{k_8}$$

$$a_4 = \epsilon_{k_7 k_8}$$

Diagram 534:

$$PO4.534 = \lim_{\tau \to \infty} \frac{-(-1)^4}{(2!)^2} \sum_{k_i} O_{k_1 k_2 k_3 k_4}^{40} \Omega_{k_5 k_6}^{20} \Omega_{k_7 k_5 k_1 k_2}^{13} \Omega_{k_8 k_6}^{11} \Omega_{k_8 k_7 k_3 k_4}^{04} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) d\tau_4 \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) d\tau_4 \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) d\tau_4 \theta(\tau_4 - \tau_3) d\tau_4 \theta(\tau_4 - \tau_4) d\tau_4 \theta(\tau_4 -$$



$$T11 = \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_4)(a_3 + a_2 + a_4)a_4} + \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_3 + a_4)(a_3 + a_4)a_4}$$
(1082)

$$a_1 = \epsilon^{k_5 k_6}$$

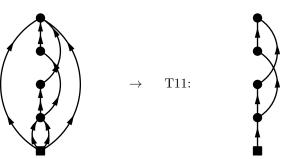
$$a_2 = \epsilon^{k_7}_{k_1 k_2 k_5}$$

$$a_3 = \epsilon^{k_8}_{k_6}$$

$$a_4 = \epsilon_{k_2 k_4 k_7 k}$$

Diagram 535:

$$PO4.535 = \lim_{\tau \to \infty} \frac{-(-1)^4}{2(2!)^2} \sum_{k_i} O_{k_1 k_2 k_3 k_4}^{40} \Omega_{k_5 k_6 k_1 k_2}^{22} \Omega_{k_7 k_5}^{11} \Omega_{k_8 k_6}^{11} \Omega_{k_8 k_7 k_3 k_4}^{11} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) \theta(\tau_4 - \tau_3) \theta(\tau_4 - \tau_3) \theta(\tau_4 - \tau_4) \theta(\tau_5 - \tau_4)$$



$$T11 = \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_4)(a_3 + a_2 + a_4)a_4} + \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_3 + a_4)(a_3 + a_4)a_4}$$

$$a_1 = \epsilon_{k_1 k_2}^{k_5 k_6}$$

$$a_2 = \epsilon_{k_5}^{k_7}$$

$$a_3 = \epsilon_{k_6}^{k_8}$$

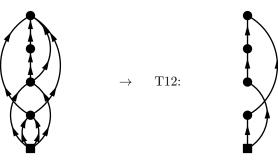
$$a_4 = \epsilon_{k_3 k_4 k_7 k_8}$$

$$a_4 = \epsilon_{k_3 k_4 k_7 k_8}$$

$$(1084)$$

Diagram 536:

$$PO4.536 = \lim_{\tau \to \infty} \frac{(-1)^4}{(2!)^3} \sum_{k_i} O_{k_1 k_2 k_3 k_4}^{40} \Omega_{k_5 k_6 k_1 k_2}^{22} \Omega_{k_7 k_8 k_3 k_4}^{22} \Omega_{k_7 k_8 k_3 k_4}^{11} \Omega_{k_9 k_7}^{04} \Omega_{k_9 k_8 k_5 k_6}^{40} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 -$$



$$T12 = \frac{1}{(a_1 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_4)a_4} + \frac{1}{(a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_4)a_4} + \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_4)a_4} + \frac{1}{(a_1 + a_3 + a_4)(a_3 + a_1 + a_3 + a_4)(a_3$$

$$a_1 = \epsilon_{k_1 k_2}^{k_5 k_6}$$

$$a_2 = \epsilon_{k_3 k_4}^{k_7 k_8}$$

$$a_3 = \epsilon_{k_7}^{k_9}$$

Diagram 537:

$$PO4.537 = \lim_{\tau \to \infty} \frac{(-1)^4}{(2!)^3} \sum_{k_i} O_{k_1 k_2 k_3 k_4}^{40} \Omega_{k_5 k_6}^{20} \Omega_{k_7 k_8 k_1 k_2}^{22} \Omega_{k_9 k_7 k_3 k_4}^{13} \Omega_{k_9 k_8 k_5 k_6}^{04} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 -$$



 \rightarrow T12

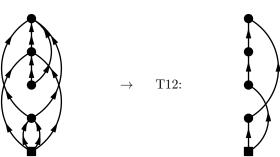


$$T12 = \frac{1}{(a_1 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_4)a_4} + \frac{1}{(a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_4)a_4} + \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_4)a_4} + \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_3 + a_4)a_4} + \frac{1}{(a_1 + a_3 + a_4)(a_3 + a_4)a_4} + \frac{1}{(a_1 + a_3 + a_4)(a_3 + a_4)(a_3 + a_4)(a_3 + a_4)(a_3 + a_4)(a_4 + a$$

$$\begin{aligned} a_1 &= \epsilon^{k_5 k_6} \\ a_2 &= \epsilon^{k_7 k_8}_{k_1 k_2} \\ a_3 &= \epsilon^{k_9}_{k_3 k_4 k_7} \\ a_4 &= \epsilon_{k_5 k_6 k_8 k_9} \end{aligned}$$

Diagram 538:

$$PO4.538 = \lim_{\tau \to \infty} \frac{(-1)^4}{(2!)^3} \sum_{k_i} O_{k_1 k_2 k_3 k_4}^{40} \Omega_{k_5 k_6 k_1 k_2}^{22} \Omega_{k_7 k_8}^{20} \Omega_{k_9 k_7 k_3 k_4}^{13} \Omega_{k_9 k_8 k_5 k_6}^{04} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 -$$

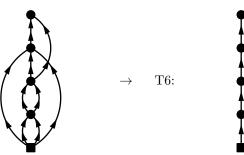


$$T12 = \frac{1}{(a_1 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_4)a_4} + \frac{1}{(a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_4)a_4} + \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_3 + a_4)(a_3 + a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_1 + a_2)(a_3 + a_1 + a_2)(a_3 + a_1 + a_2)(a_3 + a_2)(a_3 + a_1 + a_2)(a_3 + a_2)(a_3 + a_1 + a_2)(a_3 + a_2)($$

$$\begin{aligned} a_1 &= \epsilon_{k_1 k_2}^{k_5 k_6} \\ a_2 &= \epsilon^{k_7 k_8} \\ a_3 &= \epsilon_{k_3 k_4 k_7}^{k_9} \\ a_4 &= \epsilon_{k_5 k_6 k_8 k_9}^{k_9 k_9} \end{aligned}$$

Diagram 539:

$$PO4.539 = \lim_{\tau \to \infty} \frac{(-1)^4}{(2!)^3} \sum_{k_i} O_{k_1 k_2 k_3 k_4}^{40} \Omega_{k_5 k_6 k_1 k_2}^{22} \Omega_{k_7 k_8 k_5 k_6}^{22} \Omega_{k_9 k_7 k_3 k_4}^{13} \Omega_{k_9 k_8}^{02} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 -$$



$$T6 = \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_3 + a_4)(a_3 + a_4)a_4}$$

$$a_1 = \epsilon_{k_1 k_2}^{k_5 k_6}$$

$$a_2 = \epsilon_{k_5 k_6}^{k_7 k_8}$$

$$a_3 = \epsilon_{k_3 k_4 k_7}^{k_9}$$

$$a_4 = \epsilon_{k_8 k_9}$$
(1092)

Diagram 540:

$$PO4.540 = \lim_{\tau \to \infty} \frac{(-1)^4}{(2!)^3} \sum_{k_i} O_{k_1 k_2 k_3 k_4}^{40} \Omega_{k_5 k_6}^{20} \Omega_{k_7 k_8 k_5 k_6}^{22} \Omega_{k_8 k_7 k_1 k_2}^{13} \Omega_{k_9 k_7 k_1 k_2}^{04} \Omega_{k_9 k_8 k_3 k_4}^{13} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 -$$

 $a_4 = \epsilon_{k_2 k_4 k_8 k_6}$

Diagram 541:

$$PO4.541 = \lim_{\tau \to \infty} \frac{(-1)^4}{(2!)^3} \sum_{k_i} O_{k_1 k_2 k_3 k_4}^{40} \Omega_{k_5 k_6 k_1 k_2}^{22} \Omega_{k_7 k_8 k_5 k_6}^{22} \Omega_{k_5 k_5 k_6}^{11} \Omega_{k_5 k_8 k_3 k_4}^{04} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_2) \theta(\tau$$

Diagram 542:

$$PO4.542 = \lim_{\tau \to \infty} \frac{(-1)^4}{(2!)^3} \sum_{k_i} O_{k_1 k_2 k_3 k_4}^{40} \Omega_{k_5 k_6 k_1 k_2}^{22} \Omega_{k_7 k_5 k_3 k_4}^{13} \Omega_{k_8 k_9 k_7 k_6}^{22} \Omega_{k_8 k_9}^{02} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_1) \theta(\tau_1) \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_1) \theta(\tau_2 - \tau_1) \theta(\tau_1) \theta(\tau_2 - \tau_1) \theta(\tau_2 - \tau_1) \theta(\tau_1) \theta(\tau_2 - \tau_1) \theta(\tau_1) \theta(\tau_2 - \tau_1) \theta(\tau_$$

$$T6 = \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_3 + a_4)(a_3 + a_4)a_4}$$

$$a_1 = \epsilon_{k_1 k_2}^{k_5 k_6}$$

$$a_2 = \epsilon_{k_3 k_4 k_5}^{k_7}$$

$$a_3 = \epsilon_{k_6 k_7}^{k_8 k_9}$$

$$a_4 = \epsilon_{k_8 k_9}$$

$$(1098)$$

Diagram 543:

$$PO4.543 = \lim_{\tau \to \infty} \frac{(-1)^4}{(2!)^3} \sum_{k_i} O_{k_1 k_2 k_3 k_4}^{40} \Omega_{k_5 k_6}^{20} \Omega_{k_7 k_5 k_1 k_2}^{13} \Omega_{k_8 k_9 k_7 k_6}^{22} \Omega_{k_8 k_9 k_7 k_6}^{04} \Omega_{k_8 k_9 k_3 k_4}^{07} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_1) \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_1) \theta(\tau_2 - \tau_1) \theta(\tau_1) \theta(\tau_2 - \tau_1) \theta(\tau_1) \theta(\tau_2 - \tau_1) \theta(\tau_2$$

$$T6 = \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_3 + a_4)(a_3 + a_4)a_4}$$

$$a_1 = \epsilon^{k_5 k_6}$$

$$a_2 = \epsilon^{k_7}_{k_1 k_2 k_5}$$

$$a_3 = \epsilon^{k_8 k_9}_{k_6 k_7}$$

$$a_4 = \epsilon_{k_2 k_4 k_8 k_9}$$

$$a_4 = \epsilon_{k_2 k_4 k_8 k_9}$$
(1100)

Diagram 544:

$$PO4.544 = \lim_{\tau \to \infty} \frac{(-1)^4}{(2!)^3} \sum_{k_i} O_{k_1 k_2 k_3 k_4}^{40} \Omega_{k_5 k_6 k_1 k_2}^{22} \Omega_{k_7 k_5}^{11} \Omega_{k_8 k_9 k_7 k_6}^{22} \Omega_{k_8 k_9 k_3 k_4}^{01} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_1) \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_1) \theta(\tau_2 - \tau_1) \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_1) \theta(\tau_2 - \tau_1) \theta(\tau_2 - \tau_1) \theta(\tau_1) \theta(\tau_2 - \tau_1) \theta(\tau_1) \theta(\tau_2 - \tau_1) \theta(\tau_2 - \tau_1$$

$$T6 = \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_3 + a_4)(a_3 + a_4)a_4}$$

$$a_1 = \epsilon_{k_1 k_2}^{k_5 k_6}$$

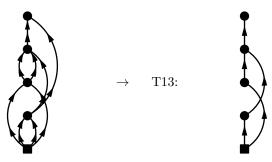
$$a_2 = \epsilon_{k_5}^{k_7}$$

$$a_3 = \epsilon_{k_6 k_7}^{k_8 k_9}$$

$$a_4 = \epsilon_{k_3 k_4 k_8 k_9}$$
(1102)

Diagram 545:

$$PO4.545 = \lim_{\tau \to \infty} \frac{(-1)^4}{(2!)^3} \sum_{k_i} O_{k_1 k_2 k_3 k_4}^{40} \Omega_{k_5 k_6 k_1 k_2}^{22} \Omega_{k_7 k_8 k_3 k_4}^{22} \Omega_{k_7 k_8 k_3 k_4}^{13} \Omega_{k_9 k_7 k_8 k_5}^{02} \Omega_{k_9 k_6}^{02} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) \theta(\tau_4 - \tau_4) \theta(\tau_3 - \tau_4) \theta(\tau_4 - \tau_4) \theta(\tau_3 - \tau_4) \theta(\tau_4 -$$



$$T13 = \frac{1}{(a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_4)a_4} + \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_3 + a_4)(a_3 + a_4)a_4}$$

$$a_1 = \epsilon_{k_1 k_2}^{k_5 k_6}$$

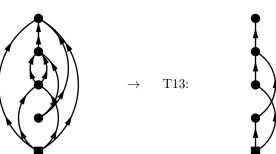
$$a_2 = \epsilon_{k_3 k_4}^{k_7 k_8}$$

$$a_3 = \epsilon_{k_5 k_7 k_8}^{k_9}$$

$$a_3 = \epsilon_{k_5 k_7 k_8}^{k_9}$$
(1104)

Diagram 546:

$$PO4.546 = \lim_{\tau \to \infty} \frac{(-1)^4}{(2!)^3} \sum_{k_i} O_{k_1 k_2 k_3 k_4}^{40} \Omega_{k_5 k_6}^{22} \Omega_{k_7 k_8 k_1 k_2}^{22} \Omega_{k_9 k_7 k_8 k_5}^{13} \Omega_{k_9 k_6 k_3 k_4}^{04} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) \theta(\tau_4 - \tau_4) \theta(\tau_5 -$$



$$T13 = \frac{1}{(a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_4)a_4} + \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_3 + a_4)(a_3 + a_4)a_4}$$

$$a_1 = \epsilon^{k_5 k_6}$$

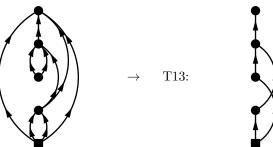
$$a_2 = \epsilon^{k_7 k_8}_{k_1 k_2}$$

$$a_3 = \epsilon^{k_9}_{k_5 k_7 k_8}$$

$$a_4 = \epsilon^{k_9}$$

Diagram 547:

$$PO4.547 = \lim_{\tau \to \infty} \frac{(-1)^4}{(2!)^3} \sum_{k_i} O_{k_1 k_2 k_3 k_4}^{40} \Omega_{k_5 k_6 k_1 k_2}^{22} \Omega_{k_7 k_8}^{20} \Omega_{k_9 k_7 k_8 k_5}^{13} \Omega_{k_9 k_6 k_3 k_4}^{04} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_2) \theta(\tau_4 - \tau_3) \theta(\tau_4 - \tau_4) \theta(\tau_3 - \tau_4) \theta(\tau_4 - \tau_4) \theta(\tau_3 - \tau_4) \theta(\tau_4 -$$



$$T13 = \frac{1}{(a_1 + a_3 + a_4)(a_2 + a_1 + a_3 + a_4)(a_3 + a_4)a_4} + \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_3 + a_4)(a_3 + a_4)a_4}$$

$$a_1 = \epsilon_{k_1 k_2}^{k_5 k_6}$$

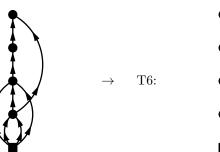
$$a_2 = \epsilon^{k_7 k_8}$$

$$a_3 = \epsilon_{k_5 k_7 k_8}^{k_9}$$

$$a_3 = \epsilon_{k_5 k_7 k_8}^{k_9}$$
(1108)

 $a_4 = \epsilon_{k_2 k_4 k_6 k_6}$

Diagram 548:



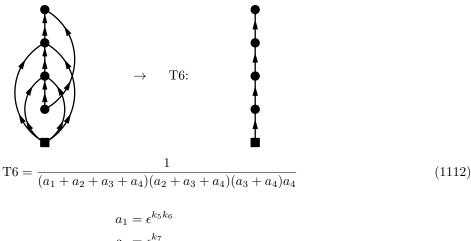
$$T6 = \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_3 + a_4)(a_3 + a_4)a_4}$$

$$a_1 = \epsilon_{k_1 k_2}^{k_5 k_6}$$

$$a_2 = \epsilon_{k_7}^{k_7}$$

$$a_4 = \epsilon_{k_1 k_2}$$
(1110)

Diagram 549:



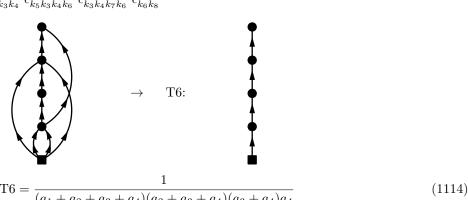
$$a_{1} = \epsilon$$

$$a_{2} = \epsilon_{k_{1}k_{2}k_{5}}^{k_{7}}$$

$$a_{3} = \epsilon_{k_{3}k_{4}k_{7}}^{k_{8}}$$

$$a_{4} = \epsilon_{k_{6}k_{8}}$$

Diagram 550:



$$a_{1} = \epsilon_{k_{1}k_{2}}^{k_{5}k_{6}}$$

$$a_{2} = \epsilon_{k_{5}}^{k_{7}}$$

$$a_{3} = \epsilon_{k_{3}k_{4}k_{7}}^{k_{8}}$$

$$a_{4} = \epsilon_{k_{6}k_{8}}$$

Diagram 551:

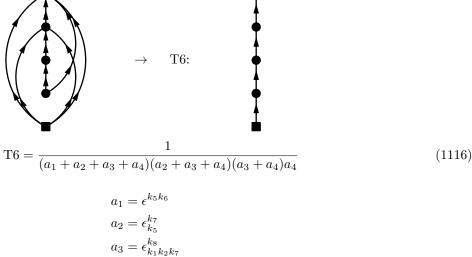
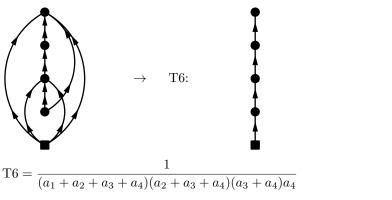


Diagram 552:



$$T6 = \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_3 + a_4)(a_3 + a_4)a_4}$$

$$a_1 = \epsilon^{k_5 k_6}$$

$$a_2 = \epsilon^{k_7}_{k_1 k_2 k_5}$$

$$a_3 = \epsilon^{k_8}_{k_7}$$

$$a_4 = \epsilon_{k_3 k_4 k_6 k_8}$$

$$(1118)$$

Diagram 553:

$$PO4.553 = \lim_{\tau \to \infty} \frac{(-1)^4}{(2!)^2} \sum_{k_i} O_{k_1 k_2 k_3 k_4}^{40} \Omega_{k_5 k_6 k_1 k_2}^{22} \Omega_{k_7 k_5}^{11} \Omega_{k_8 k_7}^{11} \Omega_{k_8 k_6 k_3 k_4}^{04} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau_3 - \tau_2) \theta(\tau_4 - \tau_3) e$$

$$= \frac{(-1)^4}{(2!)^2} \sum_{k_i} \frac{O_{k_1 k_2 k_3 k_4}^{40} \Omega_{k_5 k_6 k_1 k_2}^{22} \Omega_{k_7 k_5}^{11} \Omega_{k_8 k_6}^{11} \Omega_{k_8 k_6 k_3 k_4}^{01}}{\epsilon_{k_1 k_2 k_3 k_4} \epsilon_{k_5 k_3 k_4 k_6} \epsilon_{k_7 k_3 k_4 k_6} \epsilon_{k_3 k_4 k_6 k_8}}$$

$$T6 = \frac{1}{(a_1 + a_2 + a_3 + a_4)(a_2 + a_3 + a_4)(a_3 + a_4)a_4}$$

$$a_1 = \epsilon_{k_1 k_2}^{k_5 k_6}$$

$$a_2 = \epsilon_{k_5}^{k_7}$$

$$a_3 = \epsilon_{k_7}^{k_8}$$

$$a_3 = \epsilon_{k_7}^{k_8}$$

$$a_3 = \epsilon_{k_7}^{k_8}$$

Diagram 554:

$$PO4.554 = \lim_{\tau \to \infty} \frac{(-1)^4}{(2!)^4} \sum_{k_i} O_{k_1 k_2 k_3 k_4}^{40} \Omega_{k_5 k_6}^{20} \Omega_{k_1 k_2}^{22} \Omega_{k_7 k_8 k_3 k_4}^{22} \Omega_{k_7 k_8 k_3 k_4}^{04} \Omega_{k_7 k_8 k_5 k_6}^{04} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_4 - \tau_1) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon^{k_5 k_6}} e^{-\tau_2 \epsilon_{k_1 k_2}} e^{-$$

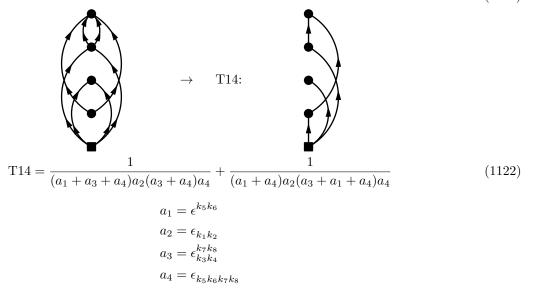


Diagram 555:

$$PO4.555 = \lim_{\tau \to \infty} \frac{(-1)^4}{(2!)^3} \sum_{k_i} O_{k_1 k_2 k_3 k_4}^{40} \Omega_{k_5 k_6 k_7 k_8}^{40} \Omega_{k_5 k_6 k_1 k_2}^{04} \Omega_{k_9 k_7 k_3 k_4}^{13} \Omega_{k_9 k_7}^{02} \Omega_{k_9 k_8}^{02} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_1) \theta(\tau$$

Diagram 556:

$$PO4.556 = \lim_{\tau \to \infty} \frac{(-1)^4}{(2!)^3} \sum_{k_i} O_{k_1 k_2 k_3 k_4}^{40} \Omega_{k_5 k_6 k_7 k_8}^{40} \Omega_{k_5 k_6}^{21} \Omega_{k_9 k_7 k_1 k_2}^{40} \Omega_{k_9 k_8 k_3 k_4}^{01} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_4 -$$

Diagram 557:

$$PO4.557 = \lim_{\tau \to \infty} \frac{(-1)^4}{(2!)^3} \sum_{k_i} O_{k_1 k_2 k_3 k_4}^{40} \Omega_{k_5 k_6 k_7 k_8}^{40} \Omega_{k_5 k_6 k_1 k_2}^{04} \Omega_{k_5 k_6 k_1 k_2}^{11} \Omega_{k_9 k_8 k_3 k_4}^{04} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_1)$$

$$T5 = \frac{1}{(a_1 + a_2 + a_3 + a_4)a_2(a_3 + a_4)a_4}$$

$$a_1 = \epsilon^{k_5 k_6 k_7 k_8}$$

$$a_2 = \epsilon_{k_1 k_2 k_5 k_6}$$

$$a_3 = \epsilon^{k_9}_{k_7}$$

$$a_4 = \epsilon_{k_2 k_3 k_3 k_5}$$

$$a_4 = \epsilon_{k_3 k_4 k_5 k_5}$$
(1128)

Diagram 558:

$$PO4.558 = \lim_{\tau \to \infty} \frac{(-1)^4}{(2!)^2} \sum_{k_i} O_{k_1 k_2 k_3 k_4}^{40} \Omega_{k_2 k_3}^{00} \Omega_{k_1 k_2}^{01} \Omega_{k_7 k_5}^{11} \Omega_{k_7 k_6 k_3 k_4}^{04} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon^{k_5 k_6}} e^{-\tau_2 \epsilon_k}$$

$$= \frac{(-1)^4}{(2!)^2} \sum_{k_i} \frac{O_{k_1 k_2 k_3 k_4}^{40} \Omega_{k_5 k_6}^{02} \Omega_{k_7 k_5}^{02} \Omega_{k_7 k_5}^{11} \Omega_{k_7 k_5}^{04}}{\epsilon_{k_3 k_4} \epsilon_{k_1 k_2} \epsilon_{k_5 k_3 k_4 k_6} \epsilon_{k_3 k_4 k_6 k_7}}$$

$$T1 = \frac{1}{(a_1 + a_3 + a_4) a_2(a_3 + a_4) a_4}$$

$$a_1 = \epsilon^{k_5 k_6}$$

$$a_2 = \epsilon_{k_1 k_2}$$

$$a_3 = \epsilon^{k_7}$$

$$a_4 = \epsilon_{k_5 k_4 k_5}$$

Diagram 559:

Diagram 560:

 $a_4 = \epsilon_{k_6 k_7 k_8 k_6}$

Diagram 561:

$$PO4.561 = \lim_{\tau \to \infty} \frac{(-1)^4}{(2!)^2} \sum_{k_i} O_{k_1 k_2 k_3 k_4}^{40} \Omega_{k_5 k_6}^{00} \Omega_{k_1 k_2}^{13} \Omega_{k_7 k_5 k_3 k_4}^{13} \Omega_{k_7 k_6}^{02} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon^{k_5 k_6}} e^{-\tau_2 \epsilon_k}$$

$$= \frac{(-1)^4}{(2!)^2} \sum_{k_i} \frac{O_{k_1 k_2 k_3 k_4}^{40} \Omega_{k_5 k_6}^{20} \Omega_{k_5 k_6}^{02} \Omega_{k_7 k_5 k_3 k_4}^{13} \Omega_{k_7 k_6}^{02}}{\epsilon_{k_3 k_4} \epsilon_{k_1 k_2} \epsilon_{k_3 k_4 k_5 k_6} \epsilon_{k_6 k_7}}$$

$$\rightarrow T1:$$

$$T1 = \frac{1}{(a_1 + a_3 + a_4) a_2 (a_3 + a_4) a_4}$$

$$a_1 = \epsilon^{k_5 k_6}$$

$$a_2 = \epsilon_{k_1 k_2}$$

$$a_3 = \epsilon^{k_7}_{k_3 k_4 k_5}$$

$$a_3 = \epsilon^{k_7}_{k_3 k_4 k_5}$$

$$a_4 = \epsilon^{k_7}_{k_3 k_4 k_5}$$

$$a_5 = \epsilon^{k_7}_{k_3 k_4 k_5}$$

$$a_6 = \epsilon^{k_7}_{k_3 k_4 k_5}$$

Diagram 562:

$$T1 = \frac{1}{(a_1 + a_3 + a_4)a_2(a_3 + a_4)a_4}$$

$$a_1 = \epsilon_{k_1 k_2}^{k_5 k_6}$$

$$a_2 = \epsilon_{k_3 k_4}$$

$$a_3 = \epsilon_{k_5}^{k_7}$$

$$a_4 = \epsilon_{k_6 k_7}$$

$$(1138)$$

Diagram 563:

Diagram 564:

$$PO4.564 = \lim_{\tau \to \infty} \frac{(-1)^4}{(2!)^4} \sum_{k_i} O_{k_1 k_2 k_3 k_4}^{40} \Omega_{k_5 k_6 k_1 k_2}^{22} \Omega_{k_3 k_4}^{02} \Omega_{k_7 k_8 k_5 k_6}^{22} \Omega_{k_7 k_8 k_5 k_6}^{02} \Omega_{k_7 k_8}^{02} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_3 - \tau_1) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_{k_1 k_2}^{k_5 k_6}} e^{-\tau_2 \epsilon_{k_3 k_4}} e^{-\tau_2 \epsilon_{k_3$$

$$T1 = \frac{1}{(a_1 + a_3 + a_4)a_2(a_3 + a_4)a_4}$$

$$a_1 = \epsilon_{k_1 k_2}^{k_5 k_6}$$

$$a_2 = \epsilon_{k_3 k_4}$$

$$a_3 = \epsilon_{k_5 k_6}^{k_7 k_8}$$

$$a_4 = \epsilon_{k_- k_-}$$
(1142)

Diagram 565:

Diagram 566:

$$PO4.566 = \lim_{\tau \to \infty} \frac{(-1)^4}{2(2!)^4} \sum_{k_i} O_{k_1 k_2 k_3 k_4}^{40} \Omega_{k_5 k_6 k_1 k_2}^{22} \Omega_{k_5 k_6}^{02} \Omega_{k_7 k_8 k_3 k_4}^{22} \Omega_{k_7 k_8}^{02} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_{k_1 k_2}^{k_5 k_6}} e^{-\tau_2 \epsilon_{k_5 k_6$$

Diagram 567:

$$PO4.567 = \lim_{\tau \to \infty} \frac{(-1)^4}{2(2!)^4} \sum_{k_i} O_{k_1 k_2 k_3 k_4}^{40} \Omega_{k_5 k_6}^{20} \Omega_{k_5 k_6 k_1 k_2}^{04} \Omega_{k_7 k_8}^{20} \Omega_{k_7 k_8 k_3 k_4}^{04} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon^{k_5 k_6}} e^{-\tau_2 \epsilon_{k_1 k_2 k_5 k_6}} e^{-\tau_2 \epsilon_{k_1$$

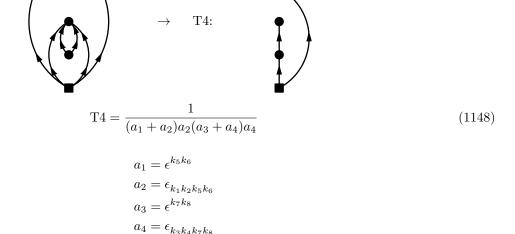


Diagram 568:

$$PO4.568 = \lim_{\tau \to \infty} \frac{(-1)^4}{(2!)^4} \sum_{k_i} O_{k_1 k_2 k_3 k_4}^{40} \Omega_{k_5 k_6 k_1 k_2}^{22} \Omega_{k_5 k_6}^{02} \Omega_{k_7 k_8}^{20} \Omega_{k_7 k_8 k_3 k_4}^{04} \int_0^{\tau} d\tau_1 d\tau_2 d\tau_3 d\tau_4 \theta(\tau_2 - \tau_1) \theta(\tau_4 - \tau_3) e^{-\tau_1 \epsilon_{k_1 k_2}^{k_5 k_6}} e^{-\tau_2 \epsilon_{k_5 k_6}$$

