

# 1 Section doc-first-unreduced-singles

p-star is 0 and t-star is 0

$${}^0\mathbf{C} = {}^{c_0}\mathbf{A}_{p_3 @ t_0} {}^3\mathbf{P}^0\mathbf{T} \quad (1)$$

$${}^0\mathbf{C} = {}^{c_0}\mathbf{A}_{p_2 @ t_2} {}^2\mathbf{P}^2\mathbf{T} \quad (2)$$

$${}^0\mathbf{C} = {}^{c_0}\mathbf{A}_{p_3 @ t_3} {}^3\mathbf{P}^3\mathbf{T} \quad (3)$$

$${}^0\mathbf{C} = {}^{c_0}\mathbf{A}_{p_0 @ t_9} {}^0\mathbf{P}^9\mathbf{T} \quad (4)$$

$${}^0\mathbf{C} = {}^{c_0}\mathbf{A}_{p_0 @ t_{10}} {}^0\mathbf{P}^{10}\mathbf{T} \quad (5)$$

$${}^0\mathbf{C} = {}^{c_0}\mathbf{A}_{p_0 @ t_{11}} {}^0\mathbf{P}^{11}\mathbf{T} \quad (6)$$

$${}^0\mathbf{C} = {}^{c_0}\mathbf{A}_{p_0 @ t_{29}} {}^0\mathbf{P}^{29}\mathbf{T} \quad (7)$$

$${}^0\mathbf{C} = {}^{c_0}\mathbf{A}_{p_0 @ t_{30}} {}^0\mathbf{P}^{30}\mathbf{T} \quad (8)$$

$${}^0\mathbf{C} = {}^{c_0}\mathbf{A}_{p_0 @ t_{31}} {}^0\mathbf{P}^{31}\mathbf{T} \quad (9)$$

$${}^0\mathbf{C} = {}^{c_0}\mathbf{A}_{p_1 @ t_{31}} {}^1\mathbf{P}^{31}\mathbf{T} \quad (10)$$

$${}^1\mathbf{C} = {}^{c_1}\mathbf{A}_{p_2 @ t_6} {}^2\mathbf{P}^6\mathbf{T} \quad (11)$$

$${}^1\mathbf{C} = {}^{c_1}\mathbf{A}_{p_0 @ t_{11}} {}^0\mathbf{P}^{11}\mathbf{T} \quad (12)$$

$${}^1\mathbf{C} = {}^{c_1}\mathbf{A}_{p_1 @ t_{31}} {}^1\mathbf{P}^{31}\mathbf{T} \quad (13)$$

$${}^1\mathbf{C} = {}^{c_1}\mathbf{A}_{p_1 @ t_{32}} {}^1\mathbf{P}^{32}\mathbf{T} \quad (14)$$

$${}^1\mathbf{C} = {}^{c_1}\mathbf{A}_{p_1 @ t_{36}} {}^1\mathbf{P}^{36}\mathbf{T} \quad (15)$$

$${}^1\mathbf{C} = {}^{c_1}\mathbf{A}_{p_3 @ t_{37}} {}^3\mathbf{P}^{37}\mathbf{T} \quad (16)$$

$${}^1\mathbf{C} = {}^{c_1}\mathbf{A}_{p_3 @ t_{38}} {}^3\mathbf{P}^{38}\mathbf{T} \quad (17)$$

$${}^1\mathbf{C} = {}^{c_1}\mathbf{A}_{p_3 @ t_{39}} {}^3\mathbf{P}^{39}\mathbf{T} \quad (18)$$

$${}^1\mathbf{C} = {}^{c_1}\mathbf{A}_{p_2 @ t_{40}} {}^2\mathbf{P}^{40}\mathbf{T} \quad (19)$$

$${}^1\mathbf{C} = {}^{c_1}\mathbf{A}_{p_3 @ t_{40}} {}^3\mathbf{P}^{40}\mathbf{T} \quad (20)$$

$${}^2\mathbf{C} = {}^{c_2}\mathbf{A}_{p_0 @ t_0} {}^0\mathbf{P}^0\mathbf{T} \quad (21)$$

$${}^2\mathbf{C} = {}^{c_2}\mathbf{A}_{p_3 @ t_9} {}^3\mathbf{P}^9\mathbf{T} \quad (22)$$

$${}^2\mathbf{C} = {}^{c_2}\mathbf{A}_{p_3 @ t_{10}} {}^3\mathbf{P}^{10}\mathbf{T} \quad (23)$$

$${}^2\mathbf{C} = {}^{c_2}\mathbf{A}_{p_2 @ t_{11}} {}^2\mathbf{P}^{11}\mathbf{T} \quad (24)$$

$${}^2\mathbf{C} = {}^{c_2}\mathbf{A}_{p_3 @ t_{11}} {}^3\mathbf{P}^{11}\mathbf{T} \quad (25)$$

$${}^2\mathbf{C} = {}^{c_2}\mathbf{A}_{p_2 @ t_{16}} {}^2\mathbf{P}^{16}\mathbf{T} \quad (26)$$

$${}^2\mathbf{C} = {}^{c_2}\mathbf{A}_{p_0 @ t_{17}} {}^0\mathbf{P}^{17}\mathbf{T} \quad (27)$$

$${}^2\mathbf{C} = {}^{c_2}\mathbf{A}_{p_1 @ t_{24}} {}^1\mathbf{P}^{24}\mathbf{T} \quad (28)$$

$${}^2\mathbf{C} = {}^{c_2}\mathbf{A}_{p_1 @ t_{25}} {}^1\mathbf{P}^{25}\mathbf{T} \quad (29)$$

$${}^2\mathbf{C} = {}^{c_2}\mathbf{A}_{p_2 @ t_{31}} {}^2\mathbf{P}^{31}\mathbf{T} \quad (30)$$

$$(31)$$

$${}^2\mathbf{C} = {}^{c_2}\mathbf{A}_{p_2@t_{32}} {}^2\mathbf{P}^{32}\mathbf{T} \quad (32)$$

$${}^2\mathbf{C} = {}^{c_2}\mathbf{A}_{p_0@t_{33}} {}^0\mathbf{P}^{33}\mathbf{T} \quad (33)$$

$${}^3\mathbf{C} = {}^{c_3}\mathbf{A}_{p_0@t_0} {}^0\mathbf{P}^0\mathbf{T} \quad (34)$$

$${}^3\mathbf{C} = {}^{c_3}\mathbf{A}_{p_3@t_{11}} {}^3\mathbf{P}^{11}\mathbf{T} \quad (35)$$

$${}^3\mathbf{C} = {}^{c_3}\mathbf{A}_{p_2@t_{12}} {}^2\mathbf{P}^{12}\mathbf{T} \quad (36)$$

$${}^3\mathbf{C} = {}^{c_3}\mathbf{A}_{p_3@t_{12}} {}^3\mathbf{P}^{12}\mathbf{T} \quad (37)$$

$${}^3\mathbf{C} = {}^{c_3}\mathbf{A}_{p_2@t_{13}} {}^2\mathbf{P}^{13}\mathbf{T} \quad (38)$$

$${}^3\mathbf{C} = {}^{c_3}\mathbf{A}_{p_2@t_{18}} {}^2\mathbf{P}^{18}\mathbf{T} \quad (39)$$

$${}^3\mathbf{C} = {}^{c_3}\mathbf{A}_{p_0@t_{19}} {}^0\mathbf{P}^{19}\mathbf{T} \quad (40)$$

$${}^3\mathbf{C} = {}^{c_3}\mathbf{A}_{p_0@t_{20}} {}^0\mathbf{P}^{20}\mathbf{T} \quad (41)$$

$${}^3\mathbf{C} = {}^{c_3}\mathbf{A}_{p_1@t_{20}} {}^1\mathbf{P}^{20}\mathbf{T} \quad (42)$$

$${}^3\mathbf{C} = {}^{c_3}\mathbf{A}_{p_3@t_{31}} {}^3\mathbf{P}^{31}\mathbf{T} \quad (43)$$

$${}^3\mathbf{C} = {}^{c_3}\mathbf{A}_{p_3@t_{32}} {}^3\mathbf{P}^{32}\mathbf{T} \quad (44)$$

$${}^3\mathbf{C} = {}^{c_3}\mathbf{A}_{p_0@t_{39}} {}^0\mathbf{P}^{39}\mathbf{T} \quad (45)$$

$${}^3\mathbf{C} = {}^{c_3}\mathbf{A}_{p_0@t_{40}} {}^0\mathbf{P}^{40}\mathbf{T} \quad (46)$$

$${}^3\mathbf{C} = {}^{c_3}\mathbf{A}_{p_1@t_{40}} {}^1\mathbf{P}^{40}\mathbf{T} \quad (47)$$

$${}^3\mathbf{C} = {}^{c_3}\mathbf{A}_{p_1@t_{41}} {}^1\mathbf{P}^{41}\mathbf{T} \quad (48)$$

$${}^4\mathbf{C} = {}^{c_4}\mathbf{A}_{p_1@t_0} {}^1\mathbf{P}^0\mathbf{T} \quad (49)$$

$${}^4\mathbf{C} = {}^{c_4}\mathbf{A}_{p_1@t_3} {}^1\mathbf{P}^3\mathbf{T} \quad (50)$$

$${}^4\mathbf{C} = {}^{c_4}\mathbf{A}_{p_2@t_{11}} {}^2\mathbf{P}^{11}\mathbf{T} \quad (51)$$

$${}^4\mathbf{C} = {}^{c_4}\mathbf{A}_{p_1@t_{23}} {}^1\mathbf{P}^{23}\mathbf{T} \quad (52)$$

$${}^4\mathbf{C} = {}^{c_4}\mathbf{A}_{p_3@t_{24}} {}^3\mathbf{P}^{24}\mathbf{T} \quad (53)$$

$${}^4\mathbf{C} = {}^{c_4}\mathbf{A}_{p_2@t_{29}} {}^2\mathbf{P}^{29}\mathbf{T} \quad (54)$$

$${}^4\mathbf{C} = {}^{c_4}\mathbf{A}_{p_0@t_{31}} {}^0\mathbf{P}^{31}\mathbf{T} \quad (55)$$

$${}^4\mathbf{C} = {}^{c_4}\mathbf{A}_{p_0@t_{32}} {}^0\mathbf{P}^{32}\mathbf{T} \quad (56)$$

$${}^5\mathbf{C} = {}^{c_5}\mathbf{A}_{p_2@t_{11}} {}^2\mathbf{P}^{11}\mathbf{T} \quad (57)$$

$${}^5\mathbf{C} = {}^{c_5}\mathbf{A}_{p_0@t_{15}} {}^0\mathbf{P}^{15}\mathbf{T} \quad (58)$$

$${}^5\mathbf{C} = {}^{c_5}\mathbf{A}_{p_0@t_{16}} {}^0\mathbf{P}^{16}\mathbf{T} \quad (59)$$

$${}^5\mathbf{C} = {}^{c_5}\mathbf{A}_{p_1@t_{17}} {}^1\mathbf{P}^{17}\mathbf{T} \quad (60)$$

$${}^5\mathbf{C} = {}^{c_5}\mathbf{A}_{p_1@t_{18}} {}^1\mathbf{P}^{18}\mathbf{T} \quad (61)$$

$${}^5\mathbf{C} = {}^{c_5}\mathbf{A}_{p_2@t_{26}} {}^2\mathbf{P}^{26}\mathbf{T} \quad (63)$$

$${}^5\mathbf{C} = {}^{c_5}\mathbf{A}_{p_3@t_{26}} {}^3\mathbf{P}^{26}\mathbf{T} \quad (64)$$

$${}^5\mathbf{C} = {}^{c_5}\mathbf{A}_{p_0@t_{32}} {}^0\mathbf{P}^{32}\mathbf{T} \quad (65)$$

$${}^5\mathbf{C} = {}^{c_5}\mathbf{A}_{p_0@t_{33}} {}^0\mathbf{P}^{33}\mathbf{T} \quad (66)$$

$${}^5\mathbf{C} = {}^{c_5}\mathbf{A}_{p_1@t_{35}} {}^1\mathbf{P}^{35}\mathbf{T} \quad (67)$$

$${}^6\mathbf{C} = {}^{c_6}\mathbf{A}_{p_2@t_0} {}^2\mathbf{P}^0\mathbf{T} \quad (68)$$

$${}^6\mathbf{C} = {}^{c_6}\mathbf{A}_{p_0@t_4} {}^0\mathbf{P}^4\mathbf{T} \quad (69)$$

$${}^6\mathbf{C} = {}^{c_6}\mathbf{A}_{p_1@t_6} {}^1\mathbf{P}^6\mathbf{T} \quad (70)$$

$${}^6\mathbf{C} = {}^{c_6}\mathbf{A}_{p_1@t_{10}} {}^1\mathbf{P}^{10}\mathbf{T} \quad (71)$$

$${}^6\mathbf{C} = {}^{c_6}\mathbf{A}_{p_1@t_{11}} {}^1\mathbf{P}^{11}\mathbf{T} \quad (72)$$

$${}^6\mathbf{C} = {}^{c_6}\mathbf{A}_{p_1@t_{29}} {}^1\mathbf{P}^{29}\mathbf{T} \quad (73)$$

$${}^6\mathbf{C} = {}^{c_6}\mathbf{A}_{p_1@t_{30}} {}^1\mathbf{P}^{30}\mathbf{T} \quad (74)$$

$${}^6\mathbf{C} = {}^{c_6}\mathbf{A}_{p_1@t_{31}} {}^1\mathbf{P}^{31}\mathbf{T} \quad (75)$$

$${}^6\mathbf{C} = {}^{c_6}\mathbf{A}_{p_2@t_{38}} {}^2\mathbf{P}^{38}\mathbf{T} \quad (76)$$

$${}^6\mathbf{C} = {}^{c_6}\mathbf{A}_{p_2@t_{39}} {}^2\mathbf{P}^{39}\mathbf{T} \quad (77)$$

$${}^7\mathbf{C} = {}^{c_7}\mathbf{A}_{p_1@t_{10}} {}^1\mathbf{P}^{10}\mathbf{T} \quad (78)$$

$${}^7\mathbf{C} = {}^{c_7}\mathbf{A}_{p_1@t_{11}} {}^1\mathbf{P}^{11}\mathbf{T} \quad (79)$$

$${}^7\mathbf{C} = {}^{c_7}\mathbf{A}_{p_3@t_{12}} {}^3\mathbf{P}^{12}\mathbf{T} \quad (80)$$

$${}^7\mathbf{C} = {}^{c_7}\mathbf{A}_{p_2@t_{18}} {}^2\mathbf{P}^{18}\mathbf{T} \quad (81)$$

$${}^7\mathbf{C} = {}^{c_7}\mathbf{A}_{p_2@t_{19}} {}^2\mathbf{P}^{19}\mathbf{T} \quad (82)$$

$${}^7\mathbf{C} = {}^{c_7}\mathbf{A}_{p_3@t_{32}} {}^3\mathbf{P}^{32}\mathbf{T} \quad (83)$$

$${}^7\mathbf{C} = {}^{c_7}\mathbf{A}_{p_3@t_{33}} {}^3\mathbf{P}^{33}\mathbf{T} \quad (84)$$

$${}^7\mathbf{C} = {}^{c_7}\mathbf{A}_{p_3@t_{34}} {}^3\mathbf{P}^{34}\mathbf{T} \quad (85)$$

$${}^7\mathbf{C} = {}^{c_7}\mathbf{A}_{p_3@t_{35}} {}^3\mathbf{P}^{35}\mathbf{T} \quad (86)$$

$${}^7\mathbf{C} = {}^{c_7}\mathbf{A}_{p_0@t_{40}} {}^0\mathbf{P}^{40}\mathbf{T} \quad (87)$$

$${}^7\mathbf{C} = {}^{c_7}\mathbf{A}_{p_0@t_{41}} {}^0\mathbf{P}^{41}\mathbf{T} \quad (88)$$

Initialized variables:

Uninitialized variables:  ${}^0\mathbf{C} {}^1\mathbf{C} {}^2\mathbf{C} {}^3\mathbf{C} {}^4\mathbf{C} {}^5\mathbf{C} {}^6\mathbf{C} {}^7\mathbf{C}$

${}^0\mathbf{P} {}^1\mathbf{P} {}^2\mathbf{P} {}^3\mathbf{P} {}^0\mathbf{T} {}^1\mathbf{T} {}^2\mathbf{T} {}^3\mathbf{T} {}^4\mathbf{T} {}^5\mathbf{T} {}^6\mathbf{T} {}^7\mathbf{T} {}^8\mathbf{T} {}^9\mathbf{T} {}^{10}\mathbf{T}$

${}^{11}\mathbf{T} {}^{12}\mathbf{T} {}^{13}\mathbf{T} {}^{14}\mathbf{T} {}^{15}\mathbf{T} {}^{16}\mathbf{T} {}^{17}\mathbf{T} {}^{18}\mathbf{T} {}^{19}\mathbf{T} {}^{20}\mathbf{T} {}^{21}\mathbf{T} {}^{22}\mathbf{T}$

${}^{23}\mathbf{T} {}^{24}\mathbf{T} {}^{25}\mathbf{T} {}^{26}\mathbf{T} {}^{27}\mathbf{T} {}^{28}\mathbf{T} {}^{29}\mathbf{T} {}^{30}\mathbf{T} {}^{31}\mathbf{T} {}^{32}\mathbf{T} {}^{33}\mathbf{T} {}^{34}\mathbf{T}$

${}^{35}\mathbf{T} {}^{36}\mathbf{T} {}^{37}\mathbf{T} {}^{38}\mathbf{T} {}^{39}\mathbf{T} {}^{40}\mathbf{T} {}^{41}\mathbf{T} {}^{42}\mathbf{T}$