Tabelle T.2. Symmetrische Polynome $\mathcal{S}\{p,q,r\},\ p \geq q \geq r$ für $n = 3$ ausgedrückt durch die elementaren symmetrischen Funktionen $\sigma_1 \equiv a+b+c$, $\sigma_2 \equiv bc+ca+ab$ und $\sigma_3 \equiv abc$ (Fortsetzung)

Polynome 5. Grades	σ_1^5	$\sigma_1^3\sigma_2$	$\sigma_1^2\sigma_3$	$\sigma_1\sigma_2^2$	$\sigma_2\sigma_3$		
$\mathcal{S}\{5,0,0\} = 2(a^5+b^5+c^5) \equiv 2\,s_5$	2	−10	10	10	−10		
$\mathcal{S}\{4,1,0\} = bc(b^3+c^3)+ca(c^3+a^3)+ab(a^3+b^3)$	0	1	−1	−3	5		
$\mathcal{S}\{3,2,0\} = b^2c^2(b+c)+c^2a^2(c+a)+a^2b^2(a+b)$	0	0	−2	1	−1		
$\mathcal{S}\{3,1,1\} = 2(a^3bc+b^3ca+c^3ab)$	0	0	2	0	−4		
$\mathcal{S}\{2,2,1\} = 2(a^2b^2c+b^2c^2a+c^2a^2b)$	0	0	0	0	2		
Polynome 6. Grades	σ_1^6	$\sigma_1^4\sigma_2$	$\sigma_1^3\sigma_3$	$\sigma_1^2\sigma_2^2$	$\sigma_1\sigma_2\sigma_3$	σ_2^3	σ_3^2
$\mathcal{S}\{6,0,0\} = 2(a^6+b^6+c^6) \equiv 2\,s_6$	2	−12	12	18	−24	−4	6
$\mathcal{S}\{5,1,0\} = bc(b^4+c^4)+ca(c^4+a^4)+ab(a^4+b^4)$	0	1	−1	−4	7	2	−3
$\mathcal{S}\{4,2,0\} = b^2c^2(b^2+c^2)+c^2a^2(c^2+a^2)+a^2b^2(a^2+b^2)$	0	0	−2	1	4	−2	−3
$\mathcal{S}\{4,1,1\} = 2(a^4bc+b^4ca+c^4ab)$	0	0	2	0	−6	0	6
$\mathcal{S}\{3,3,0\} = 2(b^3c^3+c^3a^3+a^3b^3)$	0	0	0	0	−6	2	6
$\mathcal{S}\{3,2,1\} = ab^2c^2(b+c)+bc^2a^2(c+a)+ca^2b^2(a+b)$	0	0	0	0	1	0	−3
$\mathcal{S}\{2,2,2\} = 6a^2b^2c^2$	0	0	0	0	0	0	6
Polynome 7. Grades	σ_1^7	$\sigma_1^5\sigma_2$	$\sigma_1^4\sigma_3$	$\sigma_1^3\sigma_2^2$	$\sigma_1^2\sigma_2\sigma_3$	$\sigma_1\sigma_2^3$	$\sigma_1\sigma_3^2$
$\mathcal{S}\{7,0,0\} = 2(a^7+b^7+c^7) \equiv 2\,s_7$	2	−14	14	28	−42	−14	14
$\mathcal{S}\{6,1,0\} = bc(b^5+c^5)+ca(c^5+a^5)+ab(a^5+b^5)$	0	1	−1	−5	9	5	−4
$\mathcal{S}\{5,2,0\} = b^2c^2(b^3+c^3)+c^2a^2(c^3+a^3)+a^2b^2(a^3+b^3)$	0	0	−2	1	6	−3	−7
$\mathcal{S}\{5,1,1\} = 2(a^5bc+b^5ca+c^5ab)$	0	0	2	0	−8	0	8
$\mathcal{S}\{4,3,0\} = b^3c^3(b+c)+c^3a^3(c+a)+a^3b^3(a+b)$	0	0	0	0	−3	1	5
$\mathcal{S}\{4,2,1\} = ab^2c^2(b^2+c^2)+bc^2a^2(c^2+a^2)+ca^2b^2(a^2+b^2)$	0	0	0	0	1	0	−1
$\mathcal{S}\{3,3,1\} = 2(a^3b^3c+b^3c^3a+c^3a^3b)$	0	0	0	0	0	0	−4
$\mathcal{S}\{3,2,2\} = 2(a^3b^2c^2+b^3c^2a^2+c^3a^2b^2)$	0	0	0	0	0	0	2