Tabelle T.3. Symmetrische Polynome $\mathcal{S}\{p,q,r,s\}$, $p \geq q \geq r \geq s$ für $n=4$ ausgedrückt durch die elementaren symmetrischen Funktionen $\sigma_1 \equiv a+b+c+d$, $\sigma_2 \equiv ab+ac+ad+bc+bd+cd$, $\sigma_3 \equiv abc+abd+acd+bcd$ und $\sigma_4 \equiv abcd$

Polynome 1. Grades	σ_1				
$\mathcal{S}\{1,0,0,0\} = 6(a+b+c+d) \equiv 6\sigma_1$	6				
Polynome 2. Grades	σ_1^2	σ_2			
$\mathcal{S}\{2,0,0,0\} = 6(a^2+b^2+c^2+d^2) \equiv 6s_2$	6	−12			
$\mathcal{S}\{1,1,0,0\} = 4(ab+ac+ad+bc+bd+cd) \equiv 4\sigma_2$	0	4			
Polynome 3. Grades	σ_1^3	$\sigma_1\sigma_2$	σ_3		
$\mathcal{S}\{3,0,0,0\} = 6(a^3+b^3+c^3+d^3) \equiv 6s_3$	6	−18	18		
$\mathcal{S}\{2,1,0,0\} = 2[ab(a+b)+ac(a+c)+ad(a+d)$ $+bc(b+c)+bd(b+d)+cd(c+d)]$	0	2	−6		
$\mathcal{S}\{1,1,1,0\} = 6(abc+abd+acd+bcd) \equiv 6\sigma_3$	0	0	6		
Polynome 4. Grades	σ_1^4	$\sigma_1^2\sigma_2$	$\sigma_1\sigma_3$	σ_2^2	σ_4
$\mathcal{S}\{4,0,0,0\} = 6(a^4+b^4+c^4+d^4) \equiv 6s_4$	6	−24	24	12	−24
$\mathcal{S}\{3,1,0,0\} = 2[a^3(b+c+d)+b^3(c+d+a)$ $+c^3(d+a+b)+d^3(a+b+c)]$	0	2	−2	−4	8
$\mathcal{S}\{2,2,0,0\} = 4(a^2b^2+a^2c^2+a^2d^2+b^2c^2+b^2d^2+c^2d^2)$	0	0	−8	4	8
$\mathcal{S}\{2,1,1,0\} = 2[a^2(bc+bd+cd)+b^2(cd+ca+da)$ $+c^2(da+db+ab)+d^2(ab+ac+bc)]$	0	0	2	0	−8
$\mathcal{S}\{1,1,1,1\} = 24abcd \equiv 24\sigma_4$	0	0	0	0	24