$$a_{11}^{11} + a_{11}^{21} + a_{11}^{22} + a_{21}^{21} + a_{21}^{21} + a_{21}^{22} = -24e_1 \otimes e_1 \otimes f^1 \otimes f^1 - 12e_2 \otimes e_1 \otimes f^1 \otimes f^1 + 48e_1 \otimes e_2 \otimes f^1 \otimes f^1 + 24e_2 \otimes e_2 \otimes f^1 \otimes f^1 + 4e_2 \otimes e_1 \otimes f^2 \otimes f^1 - 16e_1 \otimes e_2 \otimes f^2 \otimes f^1 - 8e_2 \otimes e_2 \otimes f^2 \otimes f^1 = 4\left(-6e_1 \otimes e_1 \otimes f^1 - 3e_2 \otimes e_1 \otimes f^1 + 12e_1 \otimes e_2 \otimes f^1 + 6e_2 \otimes e_2 \otimes f^1 + 2e_1 \otimes e_1 \otimes f^2 + e_2 \otimes e_1 \otimes f^2 - 4e_1 \otimes e_2 \otimes f^2 - 2e_2 \otimes e_2 \otimes f^2\right) \otimes f^1 = 4\left(3\left(-2e_1 \otimes e_1 - e_2 \otimes e_1 + 4e_1 \otimes e_2 + 2e_2 \otimes e_2\right) \otimes f^1 - \left(-2e_1 \otimes e_1 - e_2 \otimes e_1 + 4e_1 \otimes e_2 + 2e_2 \otimes e_2\right) \otimes f^1 - 4\left(2e_1 + e_2\right) \otimes e_1 + 2\left(2e_1 + e_2\right) \otimes e_1\right) \otimes f^1 = 4\left(2e_1 + e_2\right) \left(3f^1 - f^2\right) \otimes f^1 = 4\left(2e_1 + e_2\right) \left(3f^1 - f^2\right) \otimes f^1$$

$$a_{12}^{11} + a_{12}^{21} + a_{12}^{12} + a_{12}^{12} + a_{22}^{11} + a_{22}^{21} + a_{22}^{22} + a_{22}^{22} = -12e_1 \otimes e_1 \otimes f^1 \otimes f^2 - 6e_2 \otimes e_1 \otimes f^1 \otimes f^2 + 24e_1 \otimes e_2 \otimes f^1 \otimes f^2 + 4e_1 \otimes e_1 \otimes f^2 \otimes f^2 + 2e_2 \otimes e_1 \otimes f^2 \otimes f^2 - 8e_1 \otimes e_2 \otimes f^2 \otimes f^2 - 4e_2 \otimes e_2 \otimes f^2 \otimes f^2 = \\ = 2\left(-6e_1 \otimes e_1 \otimes f^1 - 3e_2 \otimes e_1 \otimes f^1 + 12e_1 \otimes e_2 \otimes f^1 + 6e_2 \otimes e_2 \otimes f^1 + 2e_1 \otimes e_1 \otimes f^2 + e_2 \otimes e_1 \otimes f^2 - 4e_1 \otimes e_2 \otimes f^2 - 2e_2 \otimes e_2 \otimes f^2\right) \otimes f^2 = \\ = 2\left(-3\left(2e_1 \otimes e_1 + e_2 \otimes e_1 - 4e_1 \otimes e_2 - 2e_2 \otimes e_2\right) \otimes f^1 + \left(2e_1 \otimes e_1 + e_2 \otimes e_1 - 4e_1 \otimes e_2 - 2e_2 \otimes e_2\right) \otimes f^2\right) \otimes f^2 = -2\left(2e_1 \otimes e_1 + e_2 \otimes e_1 - 4e_1 \otimes e_2 - 2e_2 \otimes e_2\right) \left(-3f^1 + f^2\right) \otimes f^2 = \\ = 2\left(-3\left(2e_1 \otimes e_1 + e_2 \otimes e_1 - 4e_1 \otimes e_2 - 2e_2 \otimes e_2\right) \otimes f^1 + \left(2e_1 \otimes e_1 + e_2 \otimes e_1 - 4e_1 \otimes e_2 - 2e_2 \otimes e_2\right) \otimes f^2\right) \otimes f^2 = -2\left(2e_1 \otimes e_1 + e_2 \otimes e_1 - 4e_1 \otimes e_2 - 2e_2 \otimes e_2\right) \left(-3f^1 + f^2\right) \otimes f^2 = \\ = 2\left(-3\left(2e_1 \otimes e_1 + e_2 \otimes e_1 - 4e_1 \otimes e_2 - 2e_2 \otimes e_2\right) \otimes f^1 + 2e_1 \otimes e_1 \otimes e_1 \otimes e_1\right) \otimes f^2 \otimes f^2$$

 $= -2\left(-\left(2e_1+e_2\right)\otimes e_1+2\left(2e_1+e_2\right)\otimes e_2\right)\left(-3f^1+f^2\right)\otimes f^2 = 2\left(2e_1+e_2\right)\left(-e_1+2e_2\right)\left(3f^1-f^2\right)\otimes f^2$ 

Результирующее разложение тензора: 
$$(2a_1 + a_2)(-a_1 + a_2)(-a_$$

 $a = 4\left(2e_1 + e_2\right)\left(-e_1 + 2e_2\right)\left(3f^1 - f^2\right) \otimes f^1 + 2\left(2e_1 + e_2\right)\left(-e_1 + 2e_2\right)\left(3f^1 - f^2\right) \otimes f^2 = \left(2e_1 + e_2\right)\left(-e_1 + 2e_2\right)\left(3f^1 - f^2\right)\left(4f^1 + 2f^2\right)$