$$\frac{2e^{-\beta_{b}(h_{1}+z_{p})i}e^{-\beta_{b}(h_{2}-z_{p})i}\left(\beta_{b}^{2}\mu_{a}\mu_{c}e^{\beta_{b}(h_{1}+h_{2})2i}e^{\beta_{b}(h_{2}-z_{p})i} + \beta_{b}^{2}\mu_{a}\mu_{c}e^{\beta_{b}(h_{1}+h_{2})i}e^{\beta_{b}(h_{1}+h_{2})i} + \beta_{b}\beta_{c}\mu_{a}\mu_{b}e^{\beta_{b}(h_{1}+h_{2})2i}e^{\beta_{b}(h_{2}-z_{p})i} - \beta_{b}\beta_{c}\mu_{a}\mu_{b}e^{\beta_{b}(h_{1}+h_{2})i}e^{\beta_{b}(h_{1}+z_{p})i}\right)}{\beta_{a}\beta_{b}\mu_{b}\mu_{c}-\beta_{b}^{2}\mu_{a}\mu_{c} + \beta_{a}\beta_{c}\mu_{b}^{2}e^{\beta_{b}(h_{1}+h_{2})2i} + \beta_{b}^{2}\mu_{a}\mu_{c}e^{\beta_{b}(h_{1}+h_{2})2i} - \beta_{a}\beta_{c}\mu_{b}^{2} + \beta_{b}\beta_{c}\mu_{a}\mu_{b} + \beta_{a}\beta_{b}\mu_{b}\mu_{c}e^{\beta_{b}(h_{1}+h_{2})2i} + \beta_{b}\beta_{c}\mu_{a}\mu_{b}e^{\beta_{b}(h_{1}+h_{2})2i} - \beta_{c}\mu_{b}\theta_{c}^{\beta_{b}(h_{1}+h_{2})2i} + \beta_{b}\beta_{c}\mu_{a}\mu_{b}e^{\beta_{b}(h_{1}+h_{2})2i} + \beta_{b}\beta_{c}\mu_{a}\mu_{b}\mu_{b}e^{\beta_{b}(h_{1}+h_{2})2i} + \beta_{b}\beta_{c}\mu_{a}\mu_{b}e^{\beta_{b}(h_{1}+h_{2})2i} + \beta_{b}\beta_{c}\mu_{a}\mu_{b}\mu_{b}e^{\beta_$$

$$\frac{e^{\beta_{b}(h_{1}+h_{2})i}e^{-\beta_{b}^{2}\mu_{a}\mu_{c} + \beta_{a}\beta_{c}\mu_{b}^{2}e^{\beta_{b}(h_{1}+h_{2})2i} + \beta_{b}^{2}\mu_{a}\mu_{c}e^{\beta_{b}(h_{1}+h_{2})2i} - \beta_{a}\beta_{c}\mu_{b}^{2} + \beta_{b}\beta_{c}\mu_{a}\mu_{b} + \beta_{a}\beta_{b}\mu_{b}\mu_{c}e^{\beta_{b}(h_{1}+h_{2})2i} + \beta_{b}\beta_{c}\mu_{a}\mu_{b}e^{\beta_{b}(h_{1}+h_{2})2i}}}{e^{\beta_{b}(h_{1}+h_{2})i}e^{-\beta_{b}(h_{1}+z_{p})i}(\beta_{b}\mu_{c} - \beta_{c}\mu_{b})(-\beta_{a}\mu_{b}e^{\beta_{b}(h_{2}-z_{p})i} + \beta_{b}\mu_{a}e^{\beta_{b}(h_{2}-z_{p})i} + \beta_{a}\mu_{b}e^{\beta_{b}(h_{1}+h_{2})i}e^{\beta_{b}(h_{1}+h_{2})i} + \beta_{b}\mu_{a}e^{\beta_{b}(h_{1}+h_{2})i}e^{\beta_{b}(h_{1}+h_{2})i})}{\beta_{a}\beta_{b}\mu_{b}\mu_{c} - \beta_{b}^{2}\mu_{a}\mu_{c} + \beta_{a}\beta_{c}\mu_{b}^{2}e^{\beta_{b}(h_{1}+h_{2})2i} + \beta_{b}^{2}\mu_{a}\mu_{c}e^{\beta_{b}(h_{1}+h_{2})2i} - \beta_{a}\beta_{c}\mu_{b}^{2} + \beta_{b}\beta_{c}\mu_{a}\mu_{b} + \beta_{a}\beta_{b}\mu_{b}\mu_{c}e^{\beta_{b}(h_{1}+h_{2})2i} + \beta_{b}\beta_{c}\mu_{a}\mu_{b}e^{\beta_{b}(h_{1}+h_{2})2i}}}$$
(3)

(4)

$$\frac{2\,\beta_{b}\,\mu_{c}\,\mathrm{e}^{\beta_{b}\,(h_{1}+h_{2})\,\mathrm{i}}\,\mathrm{e}^{-\beta_{b}\,(h_{1}+z_{p})\,\mathrm{i}}\,\mathrm{e}^{-\beta_{b}\,(h_{2}-z_{p})\,\mathrm{i}}\,\left(-\beta_{a}\,\mu_{b}\,\mathrm{e}^{\beta_{b}\,(h_{2}-z_{p})\,\mathrm{i}}\,+\beta_{b}\,\mu_{a}\,\mathrm{e}^{\beta_{b}\,(h_{2}-z_{p})\,\mathrm{i}}\,+\beta_{a}\,\mu_{b}\,\mathrm{e}^{\beta_{b}\,(h_{1}+h_{2})\,\mathrm{i}}\,\mathrm{e}^{\beta_{b}\,(h_{1}+z_{p})\,\mathrm{i}}\,+\beta_{b}\,\mu_{a}\,\mathrm{e}^{\beta_{b}\,(h_{1}+z_{p})\,\mathrm{i}}\,+\beta_{b}\,\mu_{a}\,\mathrm{e}^{\beta_{b}\,(h_{1}+z_{p})\,\mathrm{i}}\,+\beta_{b}\,\mu_{a}\,\mathrm{e}^{\beta_{b}\,(h_{1}+z_{p})\,\mathrm{i}}\,\mathrm{e}^{\beta_{b}\,(h_{1}+z_{p})\,$$