

$$\text{AutoAd}[\text{bb}[\text{j}, \text{k}], \text{UU}@a[1, \text{j}, \text{k}]] [\text{UU}@a[1, 0, \text{j}]]$$

$$\begin{aligned}
& \text{UU} \left[a[1, 0, \text{j}] + a \left[1 - e^{-b_j}, 0, \text{k} \right] + \right. \\
& a \left[\frac{(-1+e^{-b_j}) b_0}{b_j}, \text{j}, \text{k} \right] + \delta a \left[-1 - e^{-b_j} + \frac{1-e^{-2 b_j}}{b_j}, 0, \text{k} \right] + \\
& \delta a \left[b_0 \left(1 + \frac{-1+e^{-b_j}}{b_j} \right), \varsigma, \text{k} \right] + \delta a \left[\frac{e^{-2 b_j} b_0 (1+e^{b_j} (-1+b_j))}{b_j^2}, \text{j}, \text{k} \right] + \\
& \delta aa \left[\frac{2 e^{-b_j} b_0 (\sinh[b_j] - b_j)}{b_j^3}, \text{j}, \text{k}, \text{j}, \text{k} \right] + \\
& \delta aa \left[\frac{b_0 (1-e^{-b_j}-b_j)}{b_j^2}, \varsigma, \text{j}, \text{j}, \text{k} \right] + \\
& \delta aa \left[\frac{1-e^{-b_j}}{b_j}, \varsigma, \text{k}, 0, \text{j} \right] + \delta aa \left[\frac{-1+e^{-b_j}}{b_j}, \varsigma, \text{j}, 0, \text{k} \right] + \\
& \delta aa \left[\frac{e^{-2 b_j} (-1-e^{b_j} (-1+b_j))}{b_j}, \varsigma, \text{k}, 0, \text{k} \right] + \\
& \delta aa \left[\frac{-1+e^{-b_j+b_j}}{b_j^2}, 0, \text{j}, \text{j}, \text{k} \right] + \\
& \delta aa \left[\frac{e^{-2 b_j} (1+e^{2 b_j} (-1+b_j) + e^{b_j} b_j)}{b_j^2}, 0, \text{k}, \text{j}, \text{k} \right] + \\
& \delta aa \left[-\frac{e^{-2 b_j} b_0 (-1+e^{b_j} + e^{b_j} (-2+e^{b_j}) b_j)}{b_j^2}, \varsigma, \text{k}, \text{j}, \text{k} \right]
\end{aligned}$$