```
AutoAd[bb[j, k], UU@a[1, j, k]][UU@a[1, 0, k]]
```

$$UU\Big[a\Big[e^{-b_j},\ 0,\ k\Big] + a\Big[\frac{\left(1-e^{-b_j}\right)b_0}{b_j},\ j,\ k\Big] +$$

$$\delta a\Big[\frac{e^{-2\,b_j}\,b_0\,\left(-1-e^{b_j}\,\left(-1+b_j\right)\right)}{b_j^2},\ j,\ k\Big] +$$

$$\delta a\Big[\frac{e^{-2\,b_j}\,\left(1+e^{b_j}\,\left(-1+b_j\right)\right)}{b_j},\ 0,\ k\Big] +$$

$$\delta aa\Big[\frac{e^{-2\,b_j}\,\left(-1-e^{b_j}\,\left(-1+b_j\right)\right)}{b_j^2},\ 0,\ k,\ j,\ k\Big] +$$

$$\delta aa\Big[\frac{2\,e^{-b_j}\,b_0\,\left(\sinh\left[b_j\right]-b_j\right)}{b_j^2},\ ç,\ k,\ j,\ k\Big] +$$

$$\delta aa\Big[\frac{e^{-2\,b_j}\,\left(1+e^{b_j}\,\left(-1+b_j\right)\right)}{b_j},\ ç,\ k,\ 0,\ k\Big] +$$

$$\delta aa\Big[\frac{2\,e^{-b_j}\,b_0\,\left(-\sinh\left[b_j\right]+b_j\right)}{b_j^3},\ j,\ k,\ j,\ k\Big]\Big]$$