$$\sum_{o'u'\mathbf{k'}} \hat{H}_{ou\mathbf{k},o'u'\mathbf{k'}}^{BSE} A_{o'u'\mathbf{k'}}^{\lambda} A_{o'u'\mathbf{k'}}^{\lambda} = E^{\lambda} A_{ou\mathbf{k}}^{\lambda},$$