```
[b_1] = B[b_1, f_2, eps_1, p_2, phi0_1] = Simplify[(b^2 f (1 + eps) - p - phi0 b (2 + eps)) / eps]
          -b^{2} (1 + eps) f + p + b (2 + eps) phi0
In[26]:= D[B[b, f, eps, p, phi0], b]
         -2b (1 + eps) f + (2 + eps) phi0
[n(29)] = Simplify[D[B[b, f, eps, p, phi0], b] == (2 b (1 + eps) f - (2 + eps) phi0) / eps]
Out[29]= True
In[30]:= D[B[b, f, eps, p, phi0], f]
ln[31]:= Simplify D[B[b, f, eps, p, phi0], f] == b^2 (1 + eps) / eps
In[33]:= Simplify[D[B[b, f, eps, p, phi0], eps]]
        -b^2 f + p + 2 b phi0
                eps<sup>2</sup>
       Simplify [D[B[b, f, eps, p, phi0], eps] == (p + 2b phi0 - b^2 f) / eps^2
Out[34]= True
In[35]:= Simplify[D[B[b, f, eps, p, phi0], p]]
Out[35]= - -
ln[36]:= Simplify[D[B[b, f, eps, p, phi0], p] == -1/eps]
Out[36]= True
In[37]:= Simplify[D[B[b, f, eps, p, phi0], phi0]]
Out[37]= - -
ln[38]:= Simplify[D[B[b, f, eps, p, phi0], phi0] == -b (2 + eps) / eps]
Out[38]= True
ln[27]:= A[B_, b_, phi0_, b_, f_, eps_] = (B/b+phi0-bf) (1+eps)/eps_1
\text{Out} [27] = \begin{array}{c} \displaystyle \frac{\left( \text{1} + \text{eps} \right) \; \left( \frac{B}{b} - \text{b f} + \text{phi0} \right)}{\text{eps}} \end{array}
```

```
In[41]:= Simplify[D[A[Bb[b, f, eps, p, phi0], b, phi0, b, f, eps], b]]
          (1 + eps) (Bb[b, f, eps, p, phi0] + b (b f - Bb^{(1,0,0,0,0)}[b, f, eps, p, phi0]))
                                                       b<sup>2</sup> eps
ln[42]:= Simplify D[A[Bb[b, f, eps, p, phi0], b, phi0, b, f, eps], b] ==
          - (1 + eps) (Bb[b, f, eps, p, phi0] + b (bf - D[Bb[b, f, eps, p, phi0], b]))
                                                        b<sup>2</sup> eps
Out[42]= True
In[43]:= Simplify[D[A[Bb[b, f, eps, p, phi0], b, phi0, b, f, eps], phi0]]
        (1 + eps) (b + Bb^{(0,0,0,0,1)} [b, f, eps, p, phi0])
Out[43]=
\[ \lambda_{\text{[44]}} = \frac{\text{Simplify}}{\text{D[A[Bb[b, f, eps, p, phi0], b, phi0, b, f, eps], phi0]} ==
           (1 + eps) (b + D[Bb[b, f, eps, p, phi0], phi0])
Out[44]= True
In[45]:= Simplify[D[A[Bb[b, f, eps, p, phi0], b, phi0, b, f, eps], b]]
         (1 + eps) (Bb[b, f, eps, p, phi0] + b (bf - Bb(1,0,0,0,0)) [b, f, eps, p, phi0])
                                                       b<sup>2</sup> eps
log(46):= Simplify D[A[Bb[b, f, eps, p, phi0], b, phi0, b, f, eps], b] ==
            (1 + eps) (Bb[b, f, eps, p, phi0] + b (bf - D[Bb[b, f, eps, p, phi0], b]))
                                                        b<sup>2</sup> eps
Out[46]= True
In[47]:= Simplify[D[A[Bb[b, f, eps, p, phi0], b, phi0, b, f, eps], f]]
        (1+eps) \ \left(-b+\frac{{}^{Bb}{}^{(\varrho,1,\varrho,\varrho,\varrho)}\left[\,\mathsf{b,f,eps,p,phi0}\,\right]}{\mathsf{b}}\right.
Out[47]=
In[51]:= Simplify[D[A[Bb[b, f, eps, p, phi0], b, phi0, b, f, eps], f] ==
          (1 + eps) (D[Bb[b, f, eps, p, phi0], f] - b^2) / (b eps)
Out[51]= True
In[52]:= Simplify[D[A[Bb[b, f, eps, p, phi0], b, phi0, b, f, eps], eps]]
Out[52] = \frac{1}{b eps^2} \left( b \left( b f - phi \theta \right) - Bb \left[ b, f, eps, p, phi \theta \right] + eps \left( 1 + eps \right) Bb^{(\theta, \theta, 1, \theta, \theta)} \left[ b, f, eps, p, phi \theta \right] \right)
```