Compatibility between tm and hts

December 31, 2015 3:17 AM

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In[6]:= p = UU[a[f[b1, b2, b3], 1, 4]]
Out[6]= UU[a[f[b1, b2, b3], 1, 4]]

In[7]:= p // tm[1, 2, 1]
Out[7]= UU[a[f[b1, b1, b3], 1, 4] + c[-b1 f^(0,1,0)[b1, b1, b3], 4] + δa[f^(0,1,0)[b1, b1, b3], 1, 4]]

In[8]:= p // tm[1, 2, 1] // hts[4, 1]
Out[8]= UU[a[f[b1, b1, b3], 1, 4] + c[-f[b1, b1, b3] + b1 f^(1,0,0)[b1, b1, b3], 4] +
          β[-f[b1, b1, b3] b1] + δa[-f^(1,0,0)[b1, b1, b3], 1, 4] + δβ[-b1 f^(0,1,0)[b1, b1, b3]]]

In[9]:= p // hts[4, 1]
Out[9]= UU[a[f[b1, b2, b3], 1, 4] + c[-f[b1, b2, b3] + b1 f^(1,0,0)[b1, b2, b3], 4] +
          β[-f[b1, b2, b3] b1] + δa[-f^(1,0,0)[b1, b2, b3], 1, 4]]

In[10]:= p // hts[4, 1] // hts[4, 2]
Out[10]= UU[a[f[b1, b2, b3], 1, 4] + c[-f[b1, b2, b3] + 2 b1 f^(1,0,0)[b1, b2, b3], 4] +
           β[-f[b1, b2, b3] b1] + δa[-2 f^(1,0,0)[b1, b2, b3], 1, 4]]

In[11]:= p // hts[4, 1] // hts[4, 2] // tm[1, 2, 1]
Out[11]= UU[a[f[b1, b1, b3], 1, 4] +
           c[-f[b1, b1, b3] - b1 (f^(0,1,0)[b1, b1, b3] - 2 f^(1,0,0)[b1, b1, b3]), 4] +
           β[-f[b1, b1, b3] b1] + δa[f^(0,1,0)[b1, b1, b3] - 2 f^(1,0,0)[b1, b1, b3], 1, 4]]
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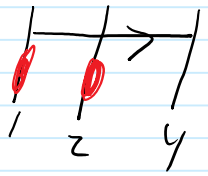
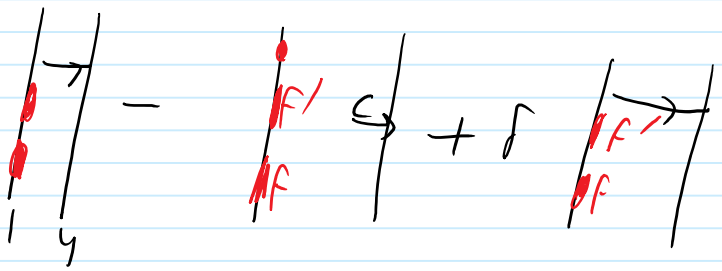
needs full checking.

In[6]:



In[7]:



hts creates a δβ already when acting on a f_0