



$$\frac{S(g_i, b_i, b_z) = (g_j, (c_i, L), (c_z, R))}{u_i a_i} = \frac{u_i \left[\frac{1}{2} a_i c_i v_i\right]}{u_z a_z \left[\frac{1}{2} b_i v_z\right]} = \frac{u_i \left[\frac{1}{2} a_i c_i v_i\right]}{u_z a_z c_z b_i v_z}$$

