$$p_{x2} = \exp(-a)p_{x1}\,, \tag{169}$$

$$p_{y2} = \exp(a)p_{y1}\,, \tag{170}$$

$$x_2 = \exp(a)x_1 + bp_{x1}\,, \tag{171}$$

$$y_2 = \exp(-a)y_1 - bp_{y1}\,, \tag{172}$$

$$z_2 = z_1 - (ax_1 + b(1+a/2)p_{x2})p_{x1} + (ay_1 + b(1-a/2)p_{y2})p_{y1}\,, \tag{173}$$

where

$$a = -\mathtt{K1F1}\frac{|\mathtt{F1}|}{24p_1\mathtt{L}}\,, \tag{174}$$

$$b = \frac{\mathtt{K1F2}}{\mathtt{L}}\,. \tag{175}$$