The body is subdivided into

with

slices. EPS = 1 is used when EPS = 0. Then a transversely linear transformation
$$\exp(: H_{2n}:)$$
 is applied in each slice with

 $n = 1 + \text{Floor} \left| \frac{10|\text{K1L}|}{\text{FPS}} \right|$

(176)

 $H_{2n} = \frac{1}{n} \left\{ \left(-p + \frac{p_x^2 + p_y^2}{2p} + \frac{E}{v_0} \right) \mathbf{L} + \frac{\mathbf{K1}}{2} (x^2 - y^2) \right\}.$ (177)

Between slices the correction exp(:
$$\Delta H$$
 :) for the kinematical term

 $\Delta H = \frac{1}{n} \left(p - \sqrt{p^2 - p_x^2 - p_y^2} - \frac{p_x^2 + p_y^2}{2p} \right) L$ (178)