

$$f(t, y, z) = -D^1(\mathbf{x}, y, z, t)$$

$$g(t, y, z) = H^3(\mathbf{x}, y, z, t)$$

$$h(t, y, z) = -H^2(\mathbf{x}, y, z, t)$$

$$\mathbf{x} = z^1(a) \cdots a \text{ を決める式}$$

$$b = z^2(a) \cdots b \text{ を決める式}$$

$$c = z^3(a) \cdots c \text{ を決める式}$$

$$Q = q \frac{\dot{z}^1(a)}{|\dot{z}^1(a)|}$$