

$${}^t \underline{u}_r = r e^{it} \Rightarrow {}^t \underline{u}_r / {}^t \underline{u}_r = i$$

$$\int_{dt}^{\alpha|\beta} {}^t \underline{u}_r \overline{{}^t \underline{u}_r} \gamma / \gamma \rightsquigarrow i \underbrace{\beta - \alpha}_{\nu_0} (\gamma)$$

$${}^z \gamma = z^k {}^z h e$$

$${}^z \gamma = k z^{k-1} {}^z h e + z^k {}^z \underline{h} {}^z h e$$

$$\overline{{}^z \gamma / \gamma} = \frac{k}{z} + {}^z \underline{h}$$

$${}^t \underline{u}_r \overline{{}^t \underline{u}_r} \gamma / \gamma = k \frac{{}^t \underline{u}_r}{{}^t \underline{u}_r} + {}^t \underline{u}_r \overline{{}^t \underline{u}_r} \underline{h} = ki + \underline{{}^t \underline{u}_r \times h}$$

$$\Rightarrow \text{LHS} = ik \underbrace{\beta - \alpha} + \underbrace{{}^{re^{i\beta}} h - {}^{re^{i\alpha}} h}_{\rightsquigarrow 0}$$