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1.

:

$$(\bar{F}, \bar{R}, \bar{\Phi}) \sim 0,$$

:

$$(\bar{F}_v^e, \bar{F}_v^i, \bar{R}_v, \bar{\Phi}_v) \sim 0, v = 1, 2, \dots, n,$$

\bar{F}_v^e, \bar{F}_v^i -

$$\begin{aligned} \bar{R} &= \bar{R}^{c\tau} + \bar{R}^a \\ \bar{\Phi} &= -m\bar{w} \\ \bar{w} &= 0, \quad \bar{\Phi} = 0, \quad \bar{R}^a = 0; \end{aligned}$$

$$(\bar{F}, \bar{R}^{c\tau}) \sim 0.$$

$$(\bar{F}, \bar{R}^{c\tau}, \bar{R}^a, \bar{\Phi}_s, \bar{\Phi}_r, \bar{\Phi}_c) \sim 0.$$

2.