

$$V_{\gamma_1, \varphi_-} [R_-] = \varphi \left(1/2 - \overline{P}_k \overline{X}_k \right); \quad V_{\gamma_2, \varphi_-} [R_-] = -\varphi^2 \overline{P}_k \overline{X}_k / 2;$$

$$V_{\gamma_3, \varphi_-} [R_-] := -\varphi^3 \overline{P}_R \overline{X}_R / 6$$