

## Probabilistic Moments

$\alpha_4$

$$F(y_4, u(y_4)) \\ \& \\ \frac{\partial F}{\partial \xi}(y_4, u(y_4)) \\ \& \\ F^2(y_4, u(y_4))$$

$$R(y_4, u(y_4)) = 0$$

$y_4$

$$R(y_1, u(y_1)) = 0$$

$y_1$

$$F(y_1, u(y_1)) \\ \& \\ \frac{\partial F}{\partial \xi}(y_1, u(y_1)) \\ \& \\ F^2(y_1, u(y_1))$$

$\alpha_1$

$$R(y_2, u(y_2)) = 0$$

$y_2$

$$R(y_3, u(y_3)) = 0$$

$y_3$

$$F(y_3, u(y_3)) \\ \& \\ \frac{\partial F}{\partial \xi}(y_3, u(y_3)) \\ \& \\ F^2(y_3, u(y_3))$$

$\alpha_3$

$$F(y_2, u(y_2)) \\ \& \\ \frac{\partial F}{\partial \xi}(y_2, u(y_2)) \\ \& \\ F^2(y_2, u(y_2))$$

$\alpha_2$