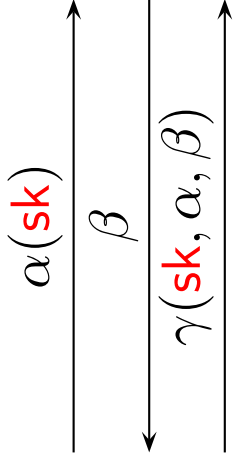
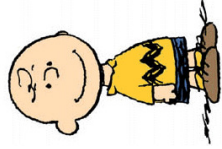
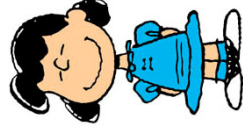


sk



pk



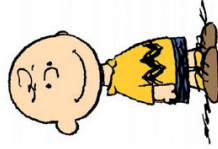
Even if Lucy is *honest*

- ▷ she might learn something about the secret **sk**.

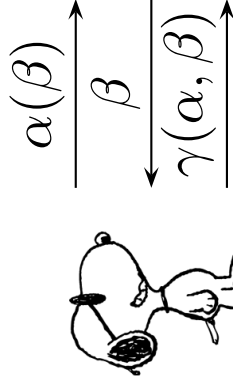
since

- ▷ messages α and γ depend on the secret **sk**.

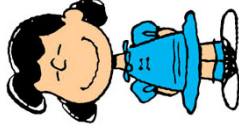
sk



pk, β



pk



Since Lucy is *honest* the value of β is known by her before the protocol and Snoopy can use **pk** and β to simulate the other messages.