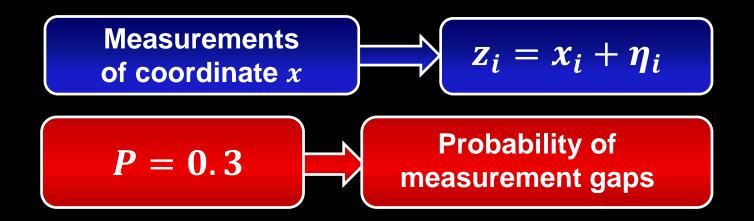
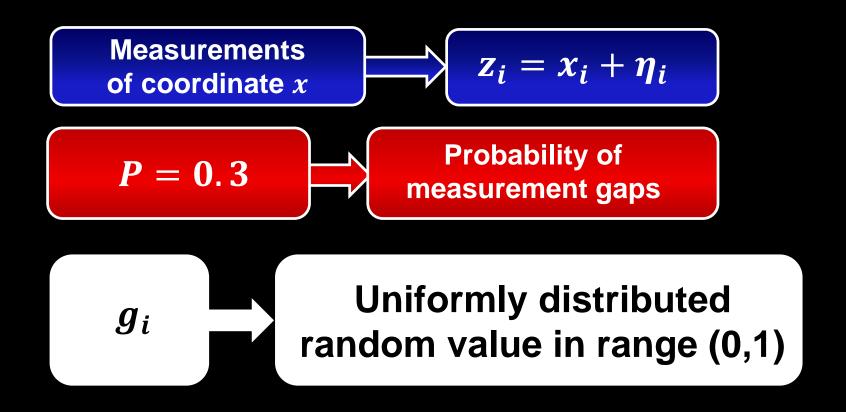
"Experimental Data Processing"

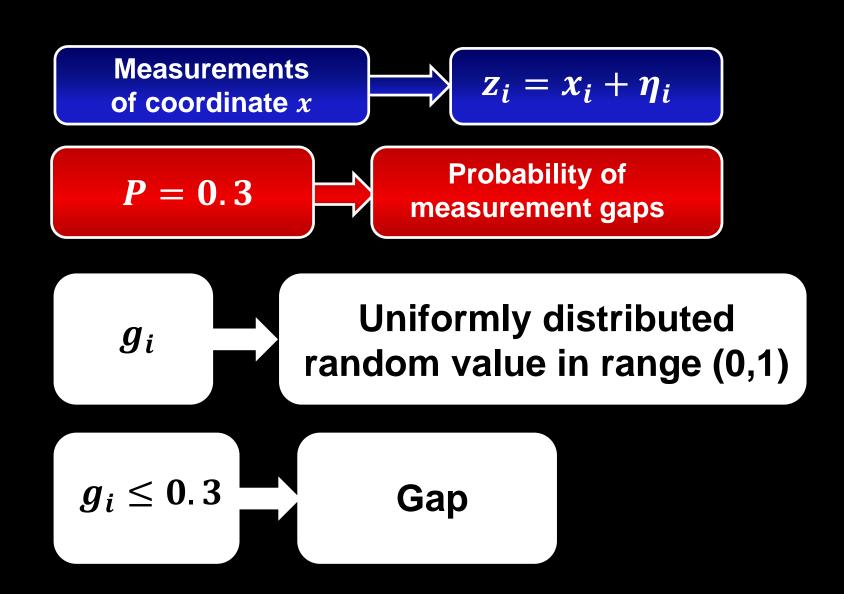
Assignment 9
Tracking and forecasting in conditions of measurement gap

Tatiana Podladchikova Term 1, September-October 2020 t.podladchikova@skoltech.ru

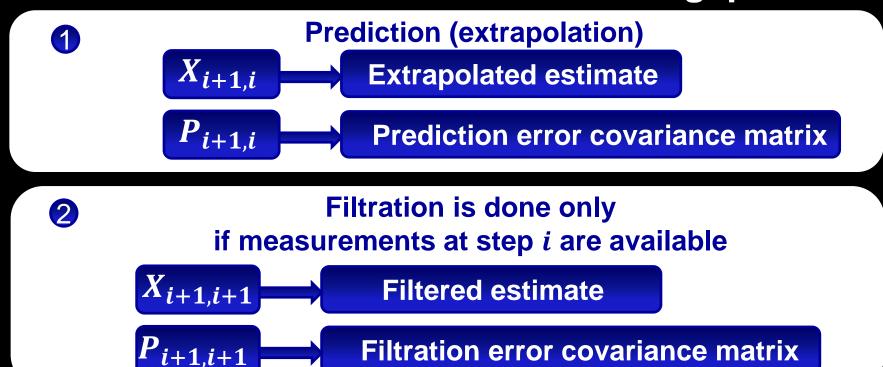














Filtration is done only if measurements at step *i* are available

$$X_{i+1,i+1}$$
 Filtered estimate

 $P_{i+1,i+1}$ Filtration error covariance matrix

If measurements at step i are not available, then filtered estimate is equal to extrapolated estimate

$$X_{i+1,i+1} = X_{i+1,i}$$
 $P_{i+1,i+1} = P_{i+1,i}$