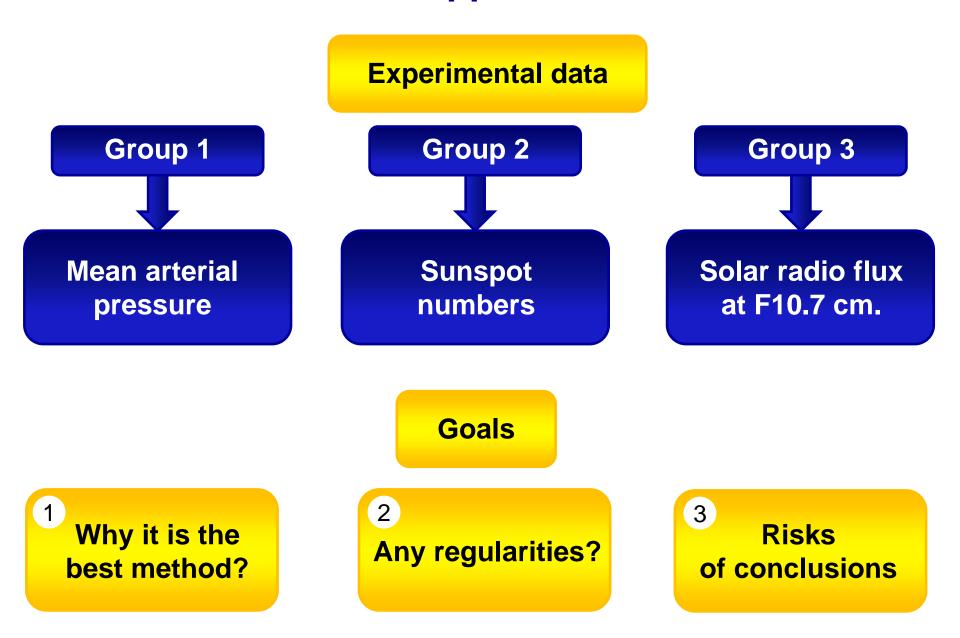


"Space Data Processing: Making Sense of Experimental Data"

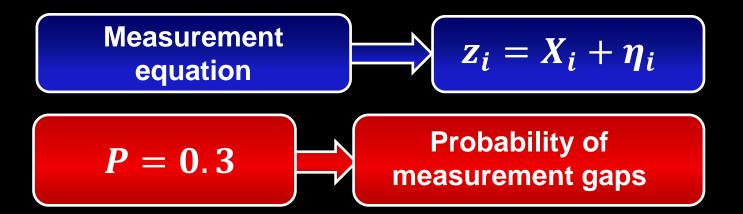
Final project Discussion

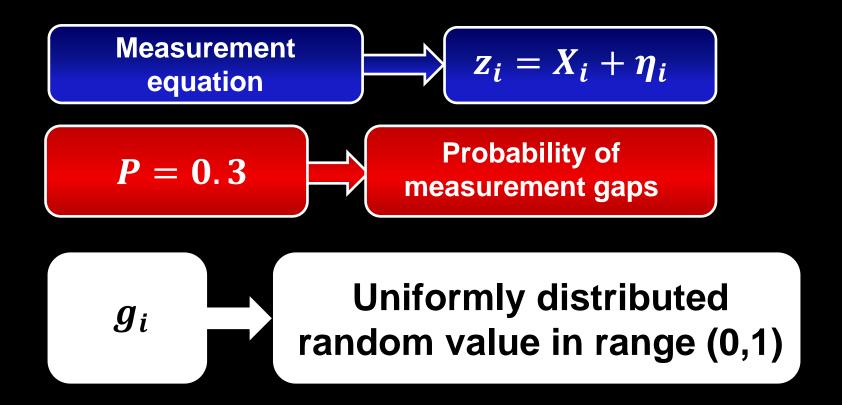
Tatiana Podladchikova Rupert Gerzer Term 4, March 28 – May 27, 2016 t.podladchikova@skoltech.ru

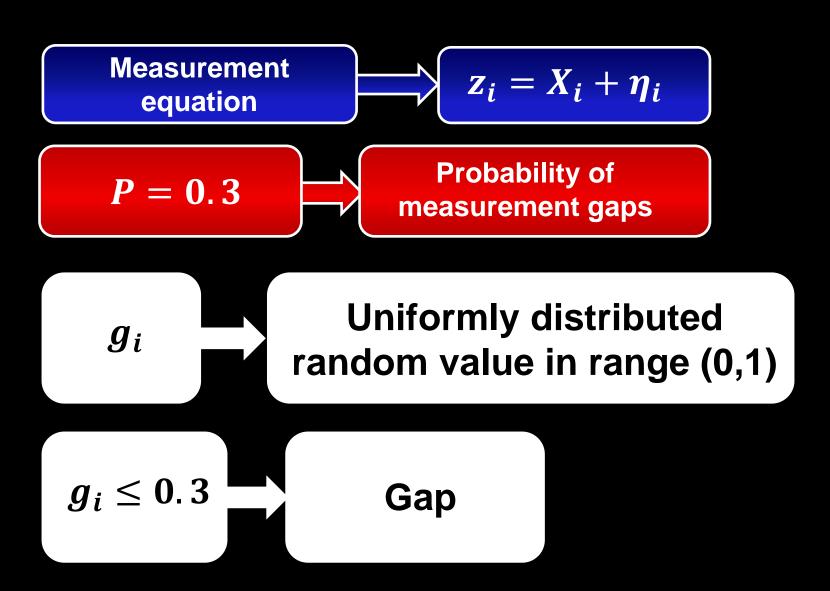
Part I. Find best approximation method



Measurement equation $z_i = X_i + \eta_i$











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

Filtered estimate

Filtration error covariance matrix



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

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

Important dates

Triday, May 20 No class, work on final project

2 Tuesday, May 24 Exam

3 Thursday, May 26 Project presentation

4 Friday, May 27 Project submission