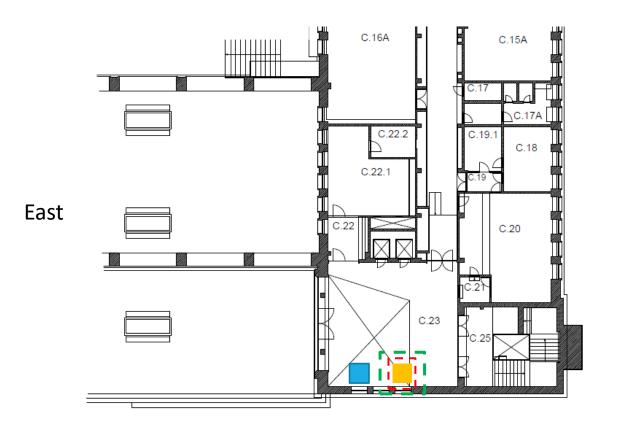
13-04-2022 LouMu general meeting

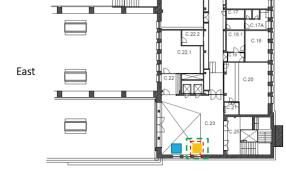
New positions



New positions



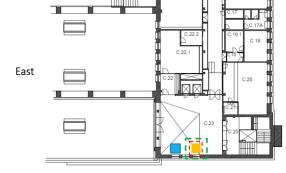
1st Position – Not tilted
2nd Position – Not tilted
3rd Position – Tilted 15° east
4th Position – Tilted 28.5° east



1st Position

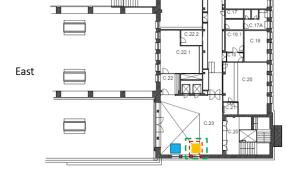






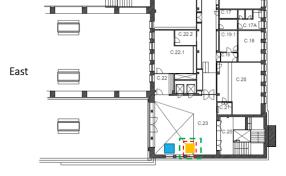
3rd Position





4th Position





Theoretical transmission

0

Theoretical transmission

-0.4 -0.3 -0.2 -0.1

-0.4 -0.3 -0.2 -0.1 0

0.9 0.4

0.9 0.3

0.8 0.2

0.8

0.6

0.6

0.5

0.5

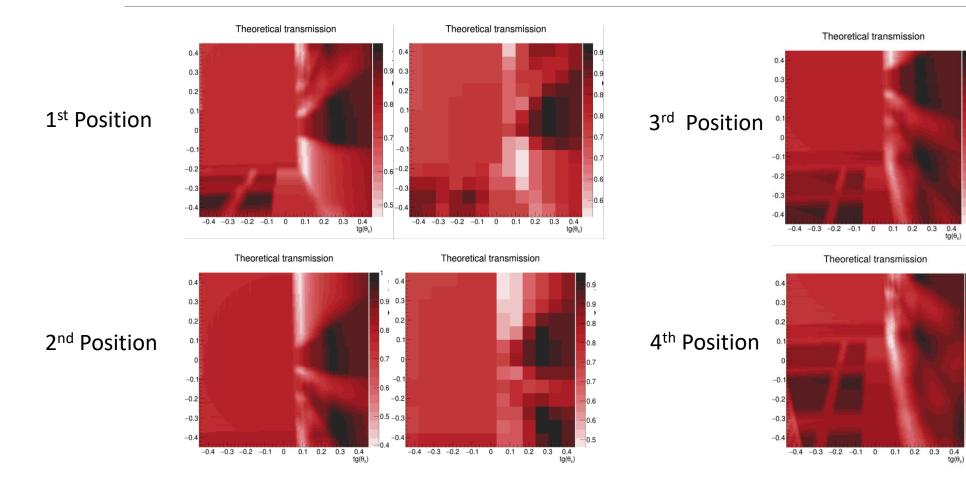
-0

-0

0.1 0.2 0.3 0.4

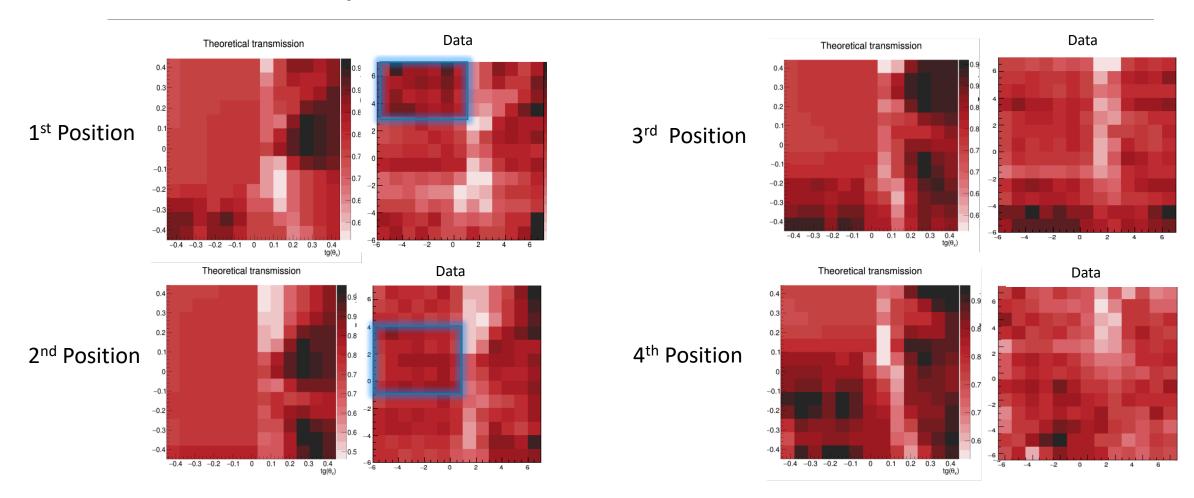
 $tg(\theta_{x})$

Simulations

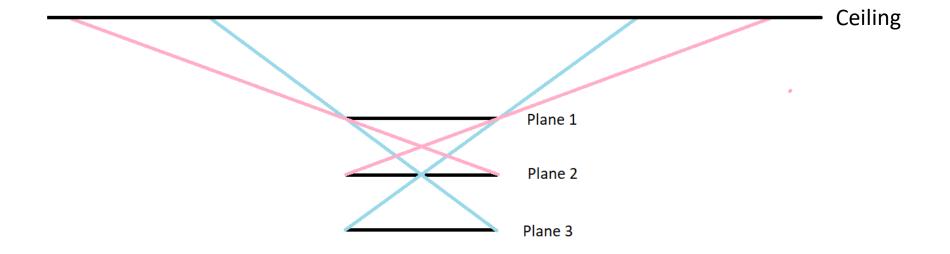


0.1 0.2 0.3 0.4 tg(θ_x) 0.7

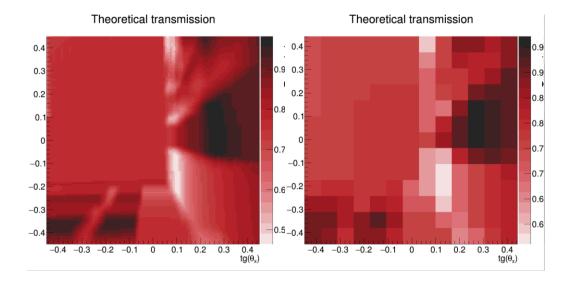
Data comparison



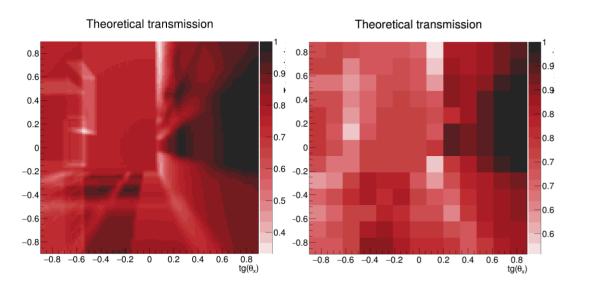
New approach



1st Position: simulation

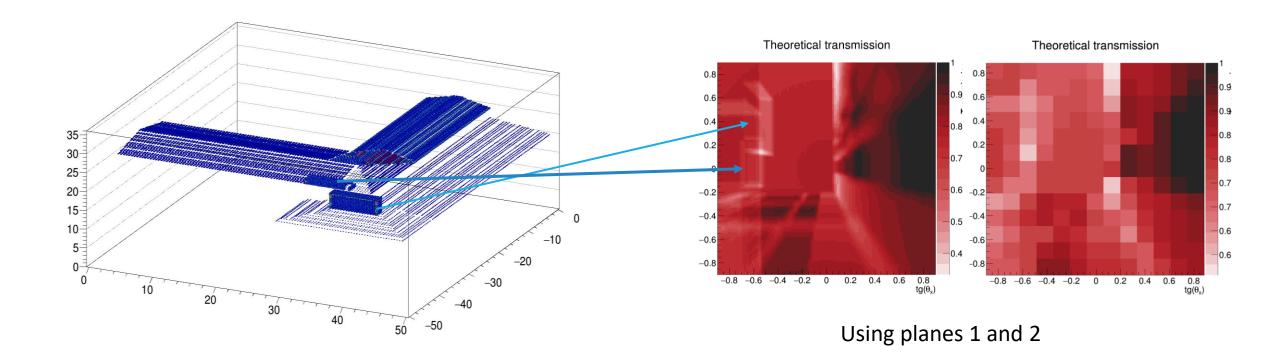


Using planes 1 and 3



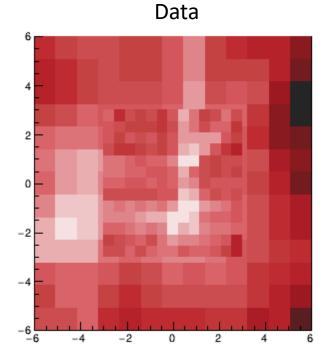
Using planes 1 and 2

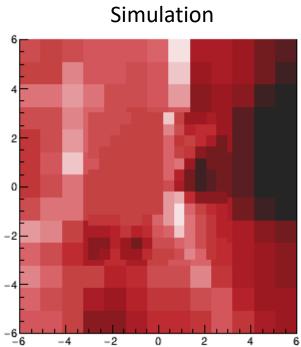
1st Position: simulation

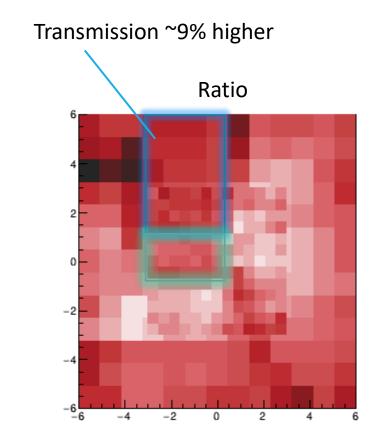


1st Position

Combining both views

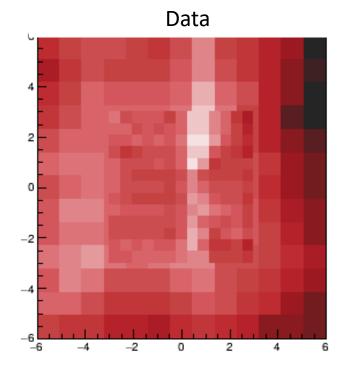


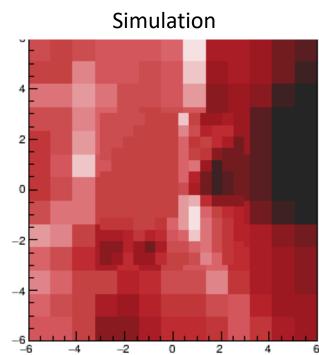




2nd Position

Combining both views





Ratio 2 0 -2

-2

0

2

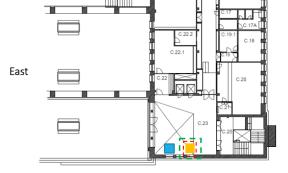
Transmission ~3% higher

6

4

Thank you

Additional slides with remaining simulations

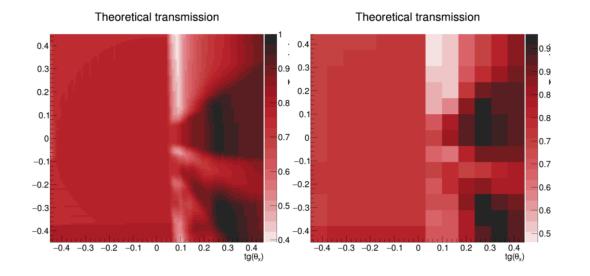


Theoretical transmission

1st Position – Not tilted
2nd Position – Not tilted
3rd Position – Tilted 15° east
4th Position – Tilted 28.5° east

Theoretical transmission

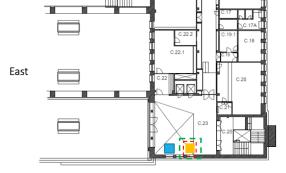
2nd Position: simulation



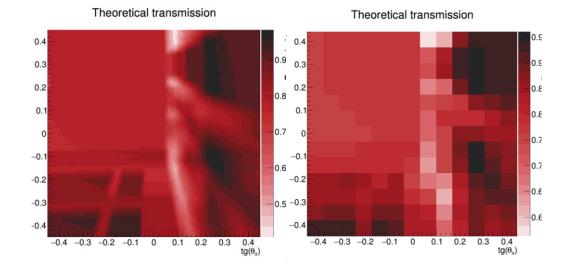
0.8 0.8 0.9 0.6 0.6 0.4 0.4 0.8 0.2 0.2 0.7 0.7 0.6 -0.2 -0.2 0.5-0.4 -0.4 0.6 -0.6 -0.6 0.4 -0.8 0.5 -0.8 -0.8 -0.6 -0.4 -0.2 0.2 0.4 0.6 0.8 tg(θ_x) -0.8 -0.6 -0.4 -0.2 0 0.2 0.4 0.6 0.8 0 $tg(\theta_x)$

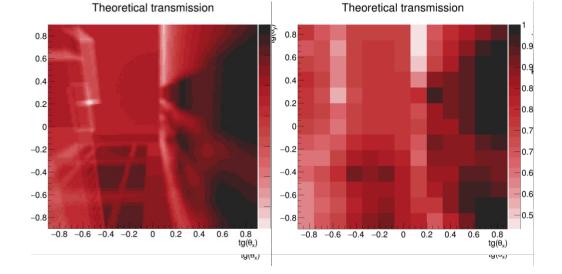
Using planes 1 and 3

Using planes 1 and 2



3rd Position: simulation



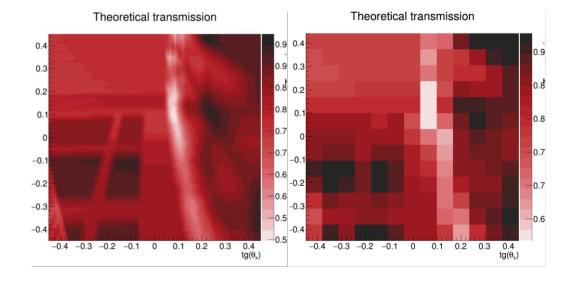


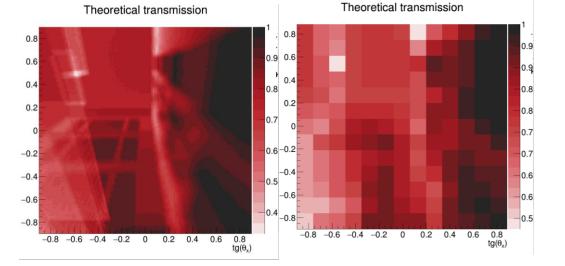
Using planes 1 and 3

Using planes 1 and 2



4th Position: simulation





Using planes 1 and 3

