Experimental Design for Interrogation Problems

Dominik Strutz & Andrew Curtis





THE UNIVERSITY of EDINBURGH

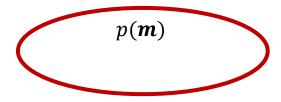


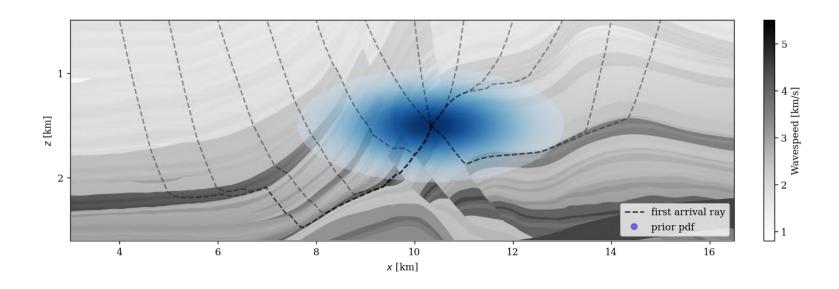




Source Location Example

Model Space

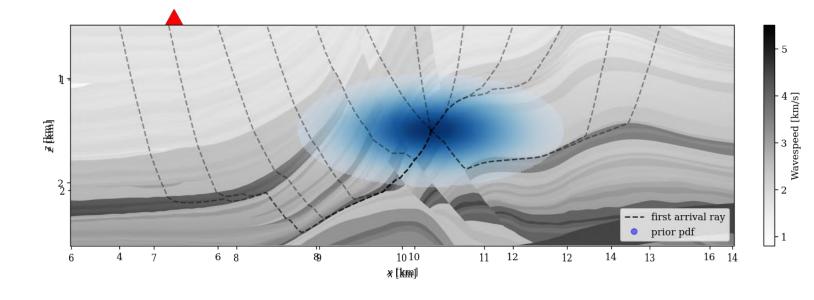


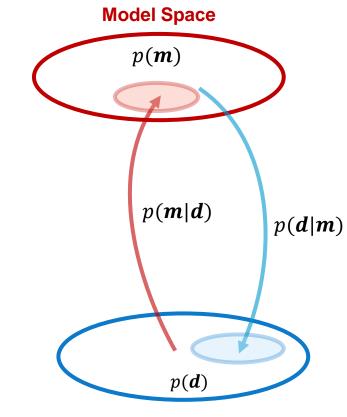




Source Location Example

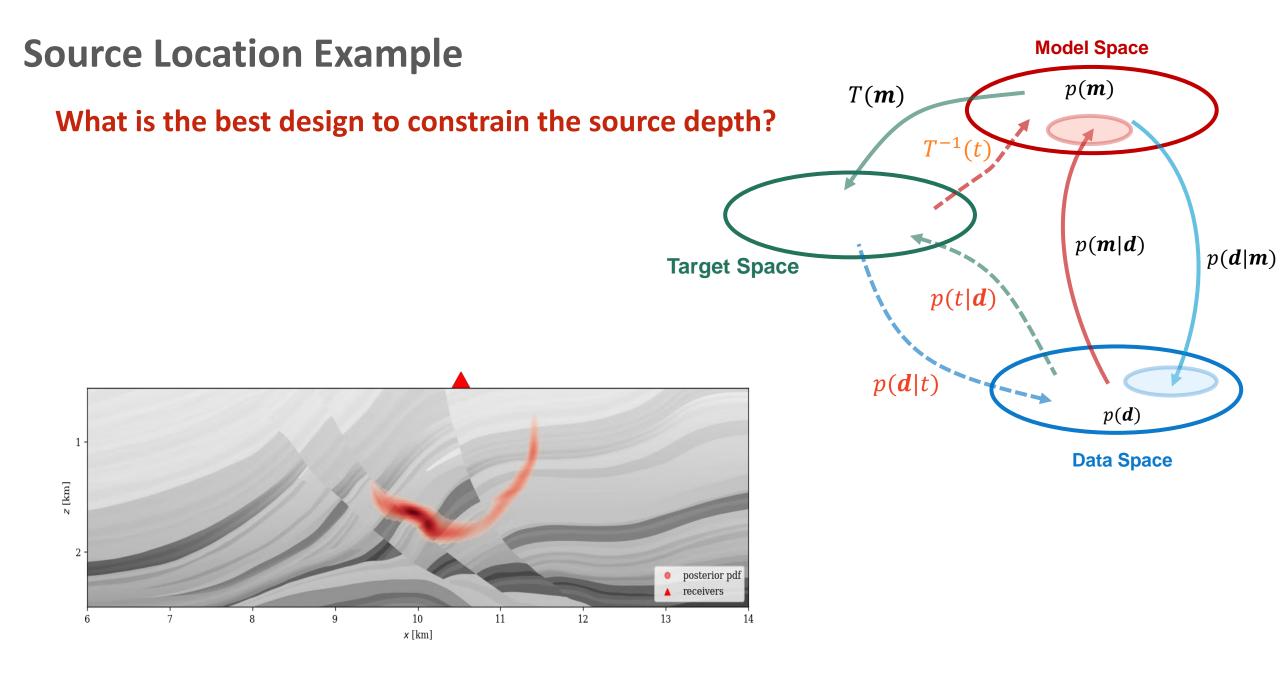
What is the best design to constrain the hypocenter?





Data Space



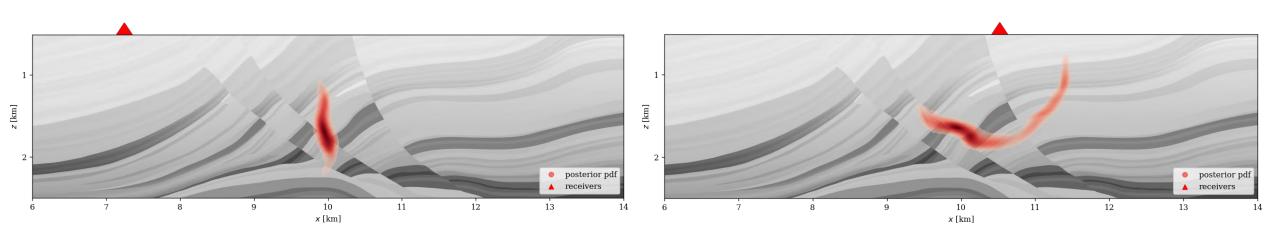




How to find this design ?



How to find this design ?



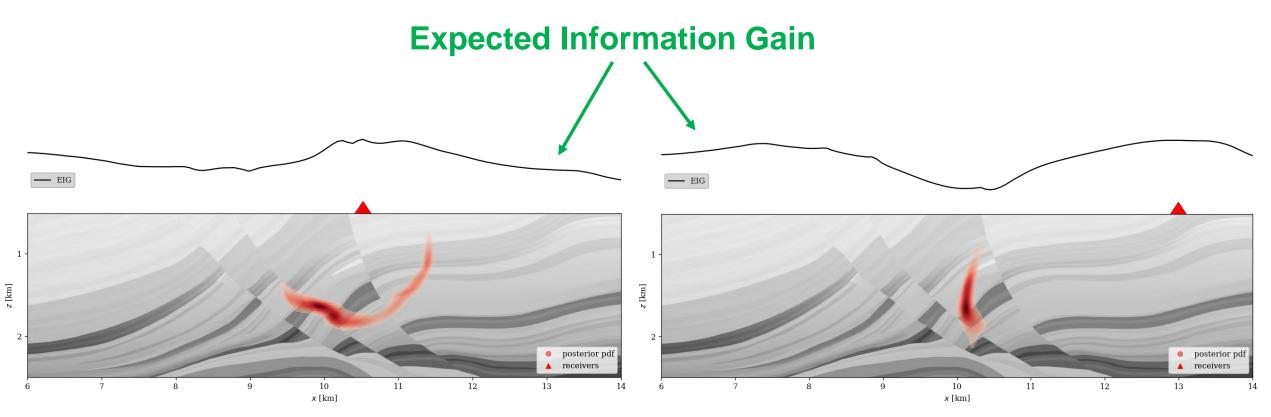
What is the best design to constrain the epicenter?

What is the best design to constrain the source depth?



How to find this design ?

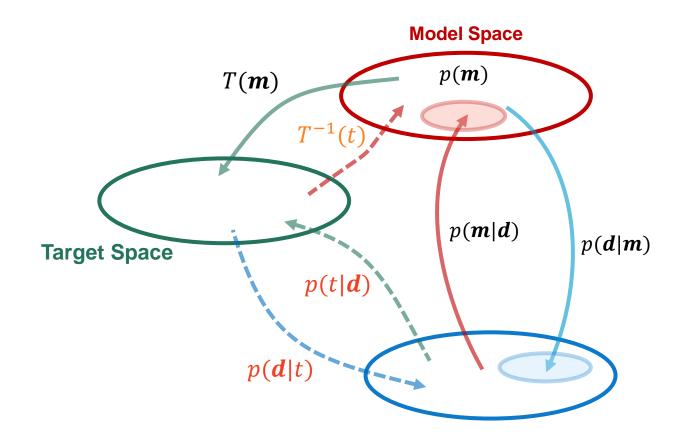
EIG estimation for interrogation problems is not trivial, and most standard experimental design methods can not be applied.



What is the best design to constrain the epicenter?

What is the best design to constrain the source depth?







Visit my website (<u>dominik-strutz.github.io</u>) for further updates and contact information

