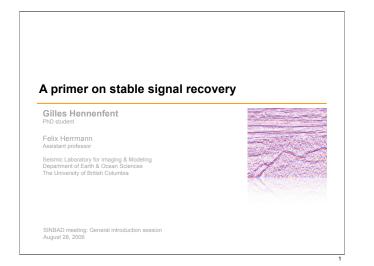
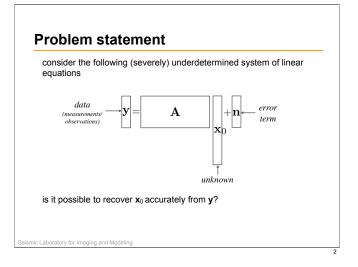
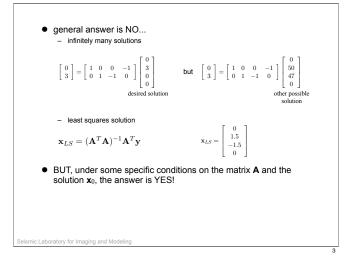
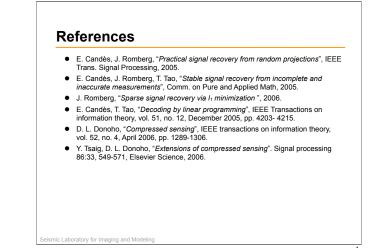
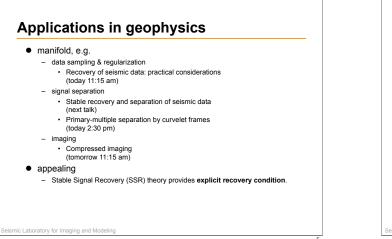
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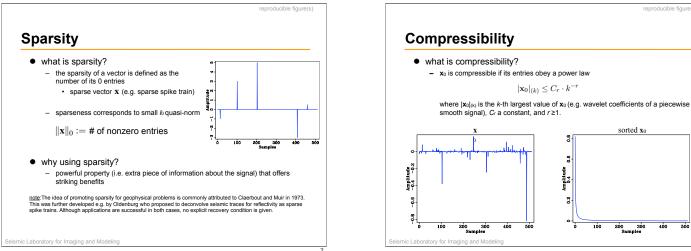


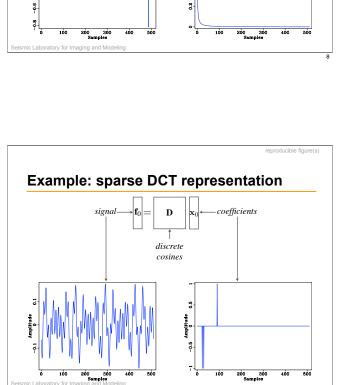




Agenda

- sparsity, compressibility & representations
- uncertainty principles and recovery
- stability





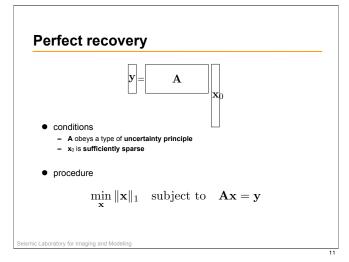
sorted \mathbf{x}_0

10

8.0

9.9

Amplitude 0.4



Sparse & compressible representations

- signal f_{0} is built as a linear combination of $few \ atoms$ from dictionary D

-coefficients

D

dictionary

atoms used to construct f₀ do not contain redundant information

each selected atom significantly contributes to the construction of f_0 (i.e. energy of the signal f_0 is concentrated in $few\ significant\ coefficients)$

simplicity (already forgot "Make it as simple as possible, but not simpler" by A. Einstein???

seek

signal-

- independence

nic Laboratory for Imaging and Modelin

expressiveness

f

