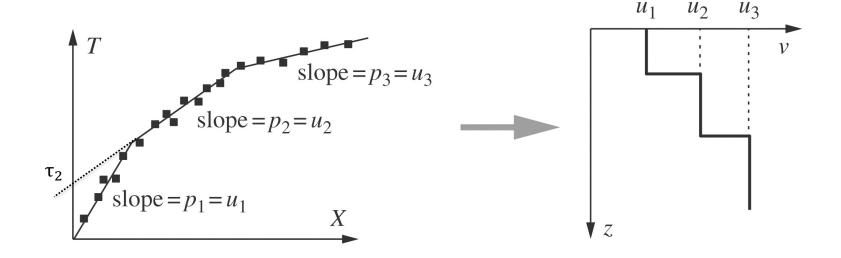
7. Traveltime inversion

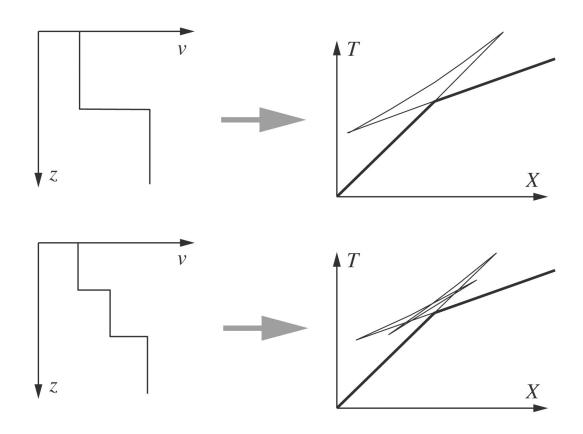
M. Ravasi ERSE 210 Seismology

1D Inversion

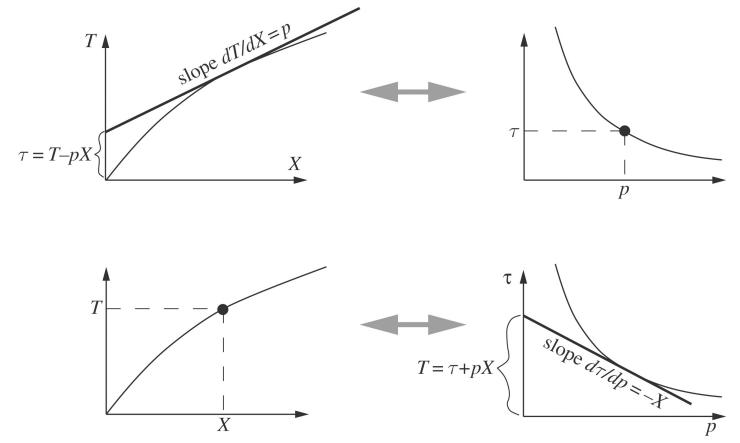


$$\tau(p_i) = 2\sum_i \sqrt{u_j^2 - p_i^2 \Delta z_j}, \qquad u_j > p_i$$

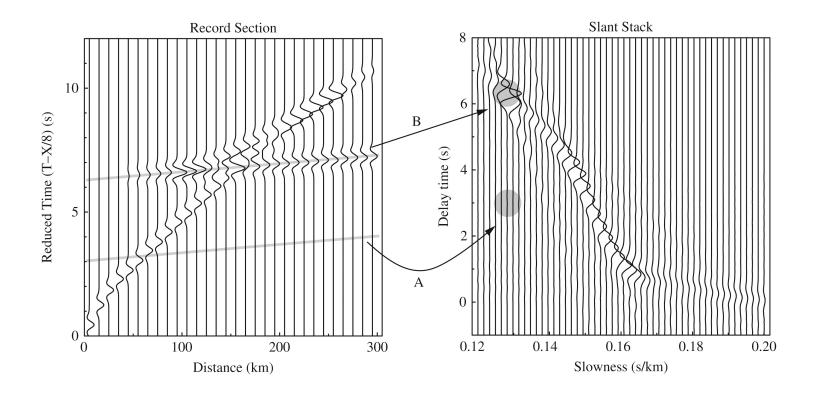
1D Non-uniqueness



т-p domain



Slant stack / Radon transform



Seismic tomography

1	2	3	4	5	6	7	8
9	10	11	etc.				
17							
25							

$$t = \int_{l} s \, dl$$

Finite-frequency tomography

