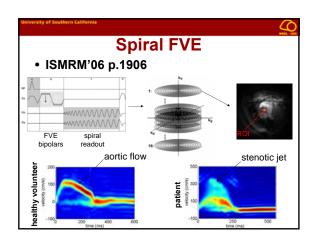


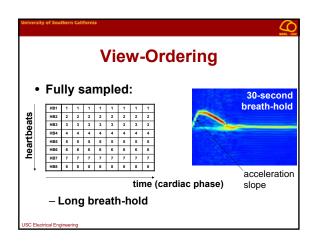
Why Fourier Velocity Encoding?

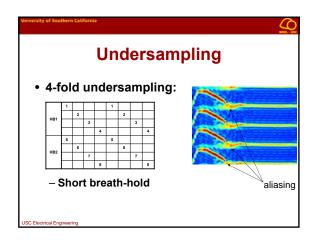
9

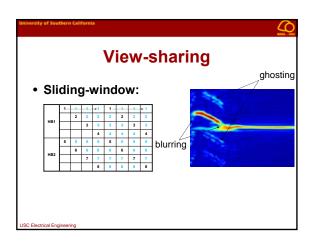
- Phase Contrast (PC)
 - Turbulent flow: multiple velocities
 - Partial volume
 - Peak velocity underestimation
- Fourier Velocity Encoding (FVE)
 - Full velocity distribution
 - Robust to partial volume
 - Longer scan time

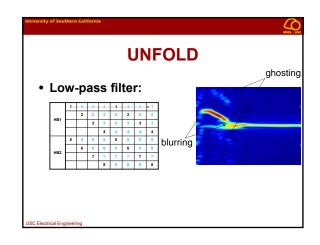
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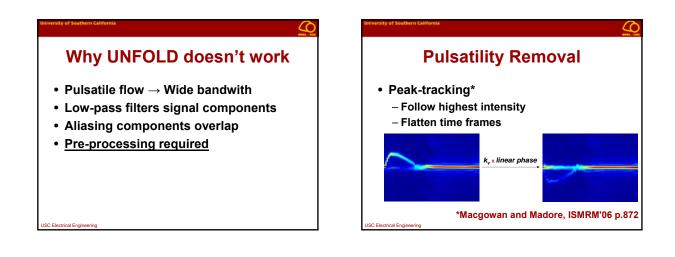


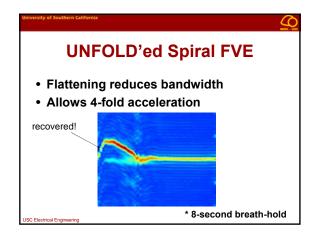


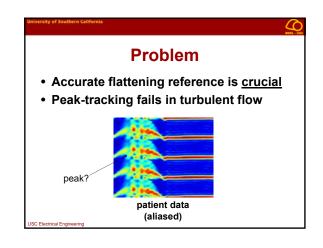


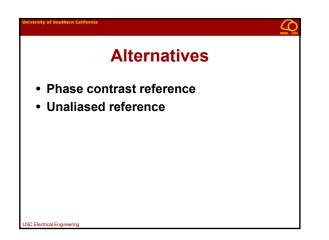


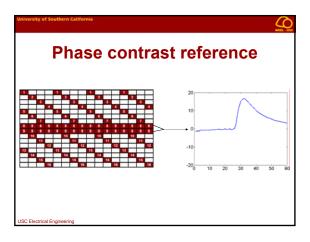


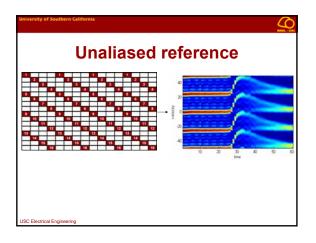


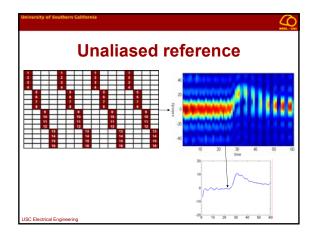


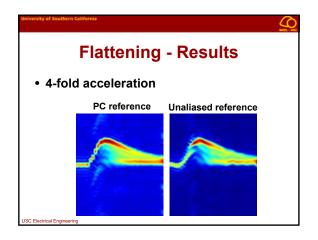


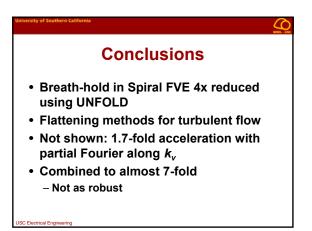














Partial Fourier Acceleration

0

- Homodyne reconstruction along velocity dimension
- 60-70% increase in velocity resolution
- Or ~40% reduction in scan time

