This slide has a 16:9 media window

4D Light Field
This slide has a 16:9 media window viewer moves right
viewer moves down

4D Light Field
Compressive Displays

Display Optics + Computational Processing

Gigabytes/sec

100x100 HD Views, 60Hz
Bandwidth: Terabytes/sec
This slide has a 16:9 media window

- 4D Light Field
- Uniform or Directional Backlight
- Stacked Layers
- Nonnegative Tensor Factorization
- Display-adaptive Compression
- Compressive Optics
- Computed Tomography

(LCDs or Transparencies)
Prototype – Tensor Display, SIGGRAPH 2012
What do we mean by “glasses-free 3D”?

- Binocular disparity
- Convergence
- Motion parallax
- Accommodation/blur

Current glasses-based (stereoscopic) displays

Near-term glasses-free (light field) displays

Longer-term holographic displays