

## Cinematic Virtual Reality with Head-Motion Parallax Jayant Thatte (*jayantt@stanford.edu*) and Bernd Girod Department of Electrical Engineering, Stanford University

## Abstract

- Head-motion parallax plays a vital role in visual comfort and immersion in VR
- We build a two-level camera rig to support lacksquarehead-motion parallax for natural scenes
- a novel depth-fusion We propose  $\bullet$ algorithm to robustly stitch panoramas from error-prone rig depth maps





