

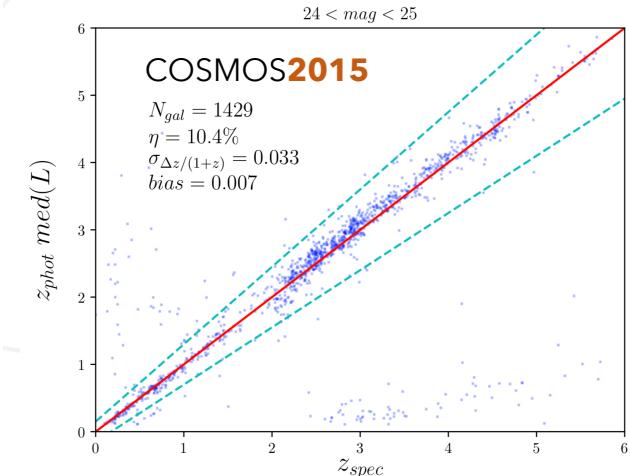
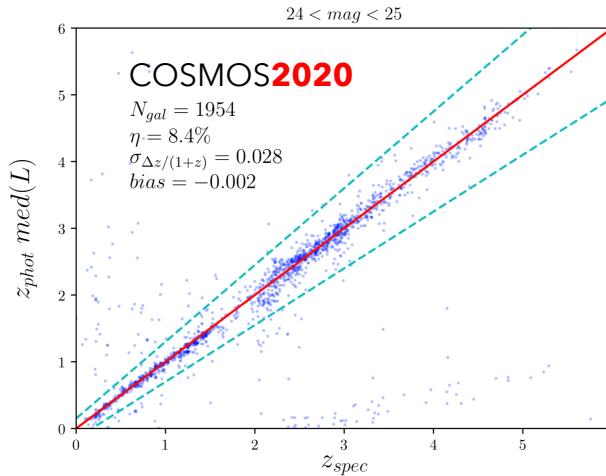
Realizing the Universe as a Model

COSMOS2020

with model-based photometry

Cosmic Dawn Center Summit | 1-2 July, 2020

- Ultra-deep surveys are pushing the limits of classical photometry
- The Farmer (*Weaver et al.*) uses The Tractor to deliver robust, model-based photometry to overcome these challenges
- Photometry is broadly consistent with classical SExtractor
- The COSMOS**2020** Catalog (*Weaver et al.*) will provide the most accurate and least biased photometric redshifts to date
- The Farmer is now being industrialized to 20 deg² in NEP/CDFS



The future of galaxy surveys looks incredibly promising!

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