

## **Bridging Simulations and Observations in the Era of Extremely Big Telescopes (Raymond Simons)**

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The last decade brought significant advances in the physical realism of hydrodynamical galaxy formation simulations. It is now critical to conduct meaningful comparisons of these simulations with observations — to test the physical models underpinning the simulations and to help interpret the observations. I will show how we are using synthetic observations of simulations to interpret current observations of the kinematic and chemical evolution of galaxies at high redshift and to make predictions for future 20-40m class facilities.

**Primary author:** SIMONS, Raymond (Space Telescope Science Institute)

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