LASER FREQUENCY COMBS FOR PRECISION RADIAL VELOCITY MEASUREMENTS IN ASTROPHYSICS

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Laser frequency combs adapted to serve as wavelength calibrators for astrophysical spectrographs (astro-combs) may greatly advance precision astrophysical spectroscopy, and thus provide a crucial tool for cosmology and the search for Earth-like exoplanets. I will discuss recent progress in developing astro-comb calibrators and bringing them into practice at observatories, with an emphasis on their utility for improving radial velocity precision in exoplanet studies.