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HARPS-N insights for PLATO: exoplanets in a chemical and formation history context

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The thousands of exoplanet discoveries have shown us that planets are ubiquitous, come in various sizes and architectures and are found orbiting different stars. Exploring this broad variety of exotic worlds, studying planets both like and unlike our own, allows us insights in the mechanisms of planet formation and evolution. In this talk I will take you on a tour of exoplanets characterised by the HARPS-N Science Team over the last decade. I will discuss variety across chemical environments, the role of long-period planets, and how observational biases can distort our view of the true underlying population.

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