

# Seminar

über

## **VIPERS: Mapping the evolution of 100000 SF galaxies out to z=1**

I present results from the recently completed VIPERS redshift survey which has obtained spectra for  $\sim 100,000$  galaxies at  $0.5 < z < 1.2$  over 24 square degrees. By combining VIPERS and SDSS datasets, we explore the relationships between star formation history, stellar mass and galaxy structure and how these relationships have evolved from  $z \sim 1$  to the present day. I focus on the concept of "mass quenching" which terminates star-formation in massive star-forming galaxies, and attempt to gain insights into what physical processes are behind it by characterising the high-mass limit of the main sequence of star-forming galaxies, how it has evolved with redshift since  $z \sim 1$  and its dependence on galaxy structure. We find that the galaxies that are being quenched at  $z \sim 0.8$  have already started to change their internal structure and already lie on the size-mass relation of present day quiescent galaxies.

von

**Dr. Chris Haines**

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**Montag, 20. März 2017, um 15:00 Uhr im HS**

des Institutes für Astrophysik, Türkenschanzstraße 17, 1180 Wien