

PhD position VU University Amsterdam



Search for variation of fundamental constants via Radio and Optical astronomy



Within the ERC-Advanced grant project of Wim Ubachs on “Physics Beyond the Standard Model from Molecules” there is an opening for a PhD student performing astronomical observations and analyzing observational spectra. Targets are absorptions systems in the far-distant universe (high redshift) as well as Galactic probing the so-called chameleon scenario of varying constants. Observations with the Very Large Telescope, as well as the Effelsberg, IRAM-30, EVLA and ALMA Radio telescopes have been performed in previous studies and will be further pursued.

Students of all nationalities, with MSc. Degree in astronomy or physics are eligible.

Publications about the project:

Phys. Rev. Lett. 114, 071301 (2015); Phys. Rev. Lett. 113, 123002 (2014);

Astrophysical Journal 782, 10 (2014); Science 339, 46 (2013); Phys. Rev. Lett. 111, 231101 (2013)

Further information on:

<http://www.nat.vu.nl/~wimu/NatCont-Eng.html> and

<http://www.nat.vu.nl/~wimu/Methanol-Science.html>

The PhD position is funded with full salary for 4 years and the candidate will have an employee status. Salary, up to 2,636 euro gross (taxable) per month in the 4th year is supplemented with a holiday allowance of 8% and an end-of-year bonus of 8,33%.

Contact for application and more details: Prof. Wim Ubachs (w.m.g.ubachs@vu.nl).

