THE VIRMOS PROJECT

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Large and deep spectroscopic samples of galaxies are essential to study galaxies and large scale structure evolution out to look-back times $\sim 10\%$ the current age of the universe. Keeping this scientific and observational goal in mind, we designed and are presently building two wide-field imaging spectrographs to be installed at the Nasmyth foci of the ESO-VLT Unit Telescopes 3 and 4.

VMOS is a multi-object spectrograph with a field of view of over 200 arcmin^2 , and a multiplexing gain between 200 and 840 (depending on the spectral resolution), working in the wavelength range 370 nm $\leq \lambda \leq 1000$ nm. It will become operational in the year 2000.

NIRMOS is its near-IR counterpart, working in the wavelength range 800 nm $\leq \lambda \leq$ 1800 nm (with imaging capabilities extended into the K band). It has a field of view of 192 arcmin² and a multiplexing gain of 190 at R = 2500. It will become operational one year after VMOS.

We show that with these two instruments it will be possible to measure the redshifts of ~ $10^5 \text{ I} \le 24$ galaxies, of which a sizable fraction will be at z > 1, in a reasonable amount of telescope time.

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492