Top-level science requirements

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Top-level requirements

- A spectrograph operating in the *Y, J, H* bands, optionally includes the *Z* and/or the *K* band.

- Best possible efficiency to reach faint M-stars

- High spectral resolution of about R = 100 000 to best exploit the spectral content

- High-RV precision and high spectral fidelity at a level corresponding to the 1m/s over short and long time scales (years), in order to execute coherent and long-lasting programs.

Top-level requirements

- Availability of a dedicated telescope for providing sufficient observing time to execute the specific scientific programs

- Efficient, flexible and reliable operations in order to optimize the scientific production

- Simultaneous sky measurement

- Simultaneous differential drift calibration through a calibration lamp spectrum interleaved with science and sky spectra

Top-level requirements

- Must be usable in a seeing limited mode, even if at a reduced spectral resolution

- Simultaneous operation of HARPS and NIRPS

- Anything to add/remove ?

  - Need for off-axis AO (a few arcsec) for atmosphere characterization