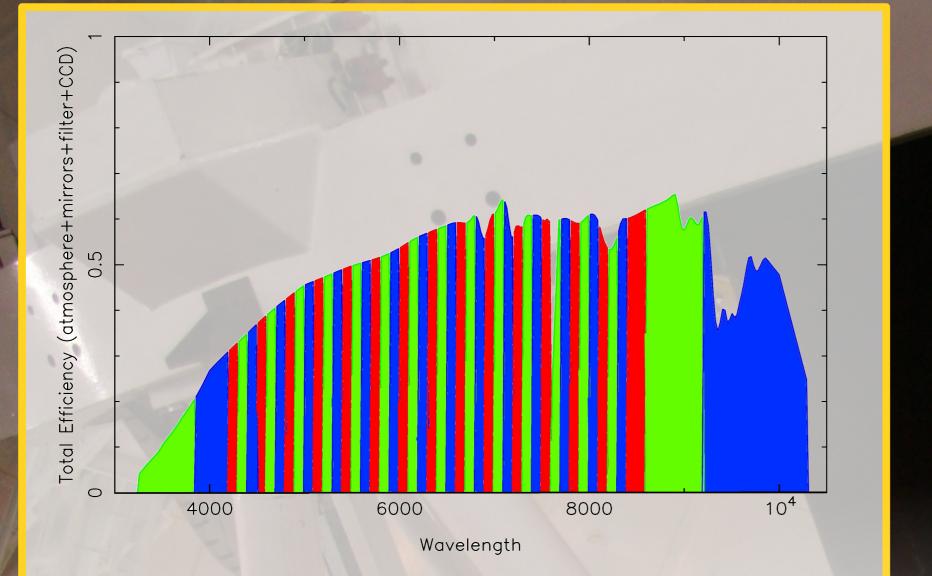
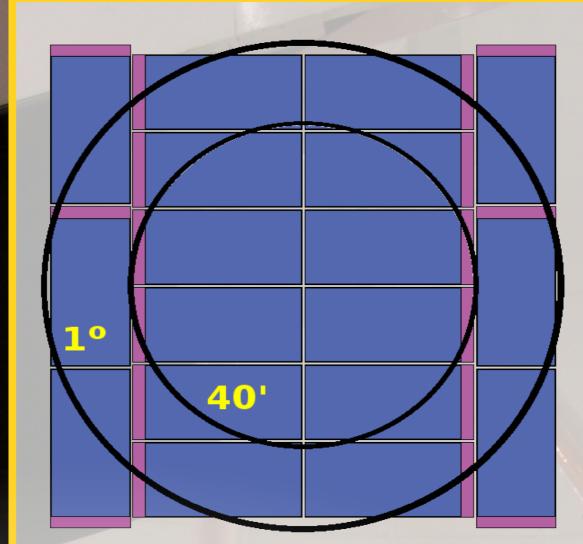
The PAU Camera

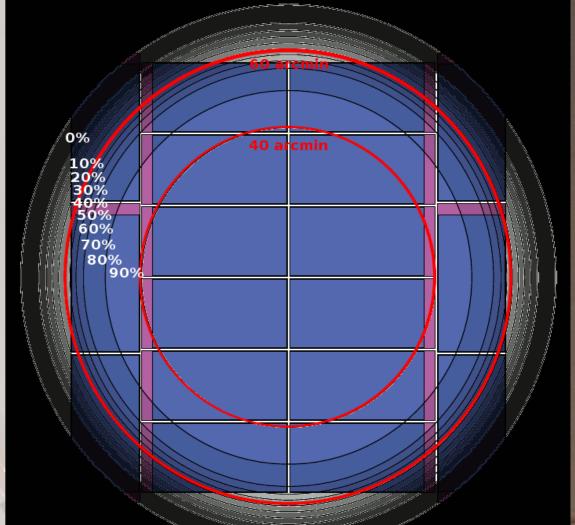
F. J. Castander(1), O. Ballester(2), L. Cardiel(2), J. Carretero(1), R. Casas(1), J. Castilla(3), M. Crocce(1), J. de Vicente(3), M. Delf no(4), E. Fernández(2), P. Fosalba(1), J. García-Bellido(5), E. Gaztañaga(1), F. Grañera(2), F. Madrid(1), P. Martí(2), R. Miquel(2), Ch. Neissner(4), E. Sánchez(3), S. Serrano(1), I. Sevilla(3), R. Ponce(3) (1)ICE (IEEC-CSIC), (2)IFAE, (3)CIEMAT, (4)PIC, (5) UAM



The PAU (Physics of the Accelerating Universe) collaboration is building an instrument, intended for the William Hershel Telescope prime focus, designed to perform a large area survey for cosmological studies.





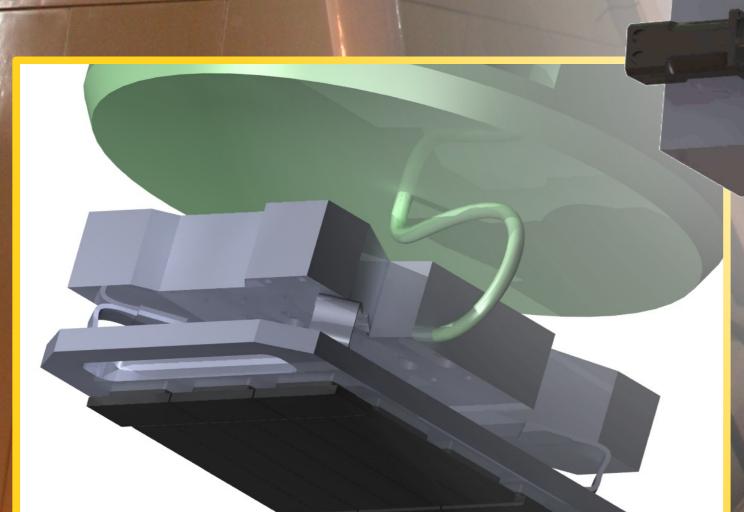


filters ~100Å wide spanning the optical wavelength range to accurately measure photometric redshift

Narrow band imaging: SEDs are sampled using ~40 The FoV is 1 degree, densely populated by 18 state of the art CCDs. The maximum vignetting is 50% of the focal plane.



Low read-out noise of being prepared using th chitecture developed by NOAC



ose as possible to the CCD detector on The filters, placed segmented exchangeable filter trays. An innovative jukebox-like exchanging mechanism inside the cryostat based on rolling hybrid bearings technology with tungsten disulfide as solid lubricant has been chosen to hold the movements inside the cryostat.

A pressurized liquid nitrogen tank feeding a boiler inside the cryostat. CCD's will be kept at 170K. Temperature homogeneity achieved with a coldplate: heat spreader and thermal capacitance smoothing the temperature ramps.



Two independen t servomotors with absolute encoders outside the cryostat through magnetic feedthroughs motion will the system.

esting setup CCD for haracterization

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