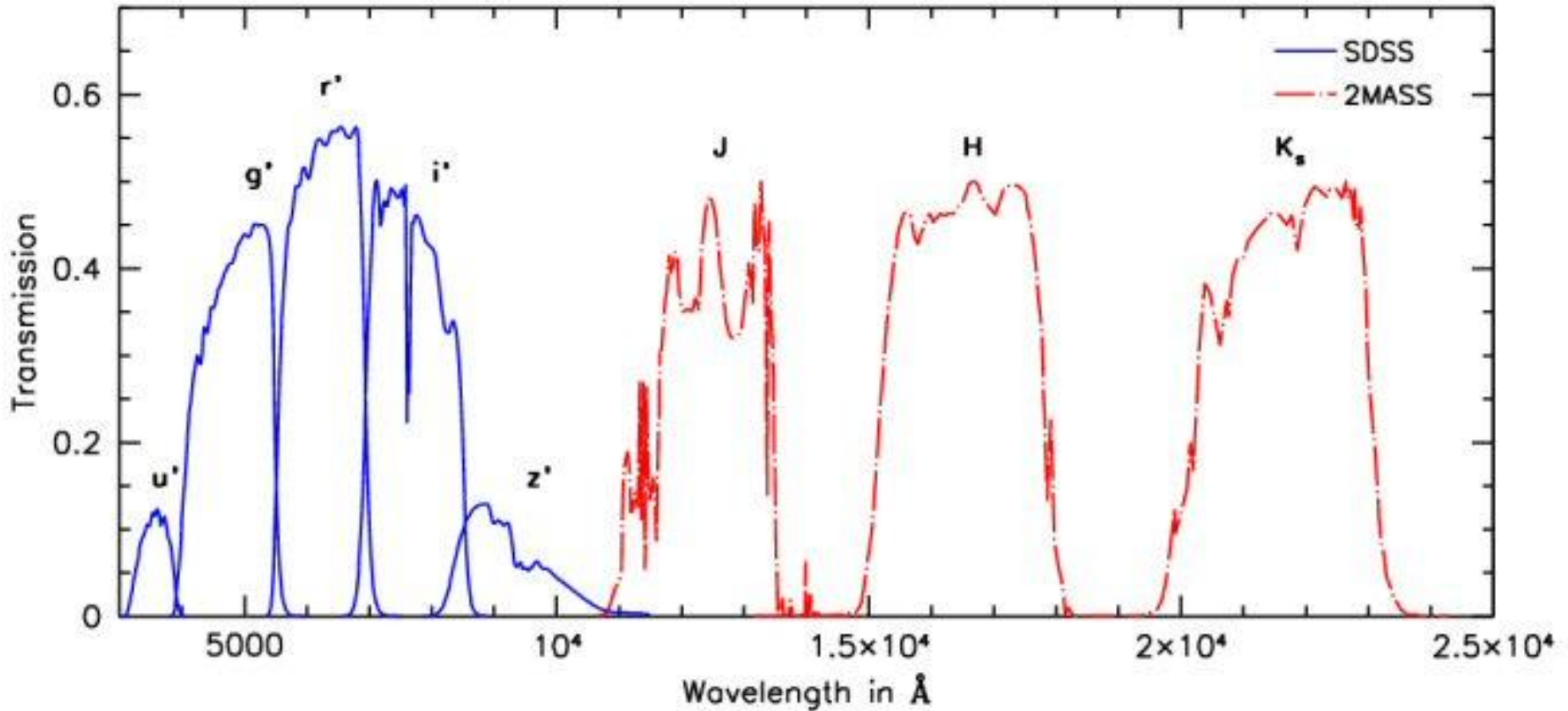


# SLOAN Filter



u:	3557	599
g:	4825	1379
r:	6261	1382
i:	7672	1535
z:	9097	1370

# LSST - SLOAN Successor

- Large Synoptic Survey Telescope
- 8.4m Telescope,  $10q^\circ$  FoV, 3.2 Gigapixel camera
- Limiting magnitude  $\sim 24.5V$  (30sec); co-added  $\sim 27.5V$
- $\sim 1000$  measurements / field in different filters within 10 years, spectroscopy planned
- Factor 2 better Photometry, Astrometry und Image Quality
- $\ll 1\%$  Photometry, 0.2mas/yr Proper Motion, 1mas geom. Parallaxes
- **30TByte / Night**
- After 10 years: 60 Pbyte = 60.125.899.906.842.620 Byte
- First light: 2015

# James Webb Space Telescope

- Successor of the Hubble Space Telescope
- 6.5 meter telescope
- Spectroscopy and photometry only in the IR
- Launch: 2014

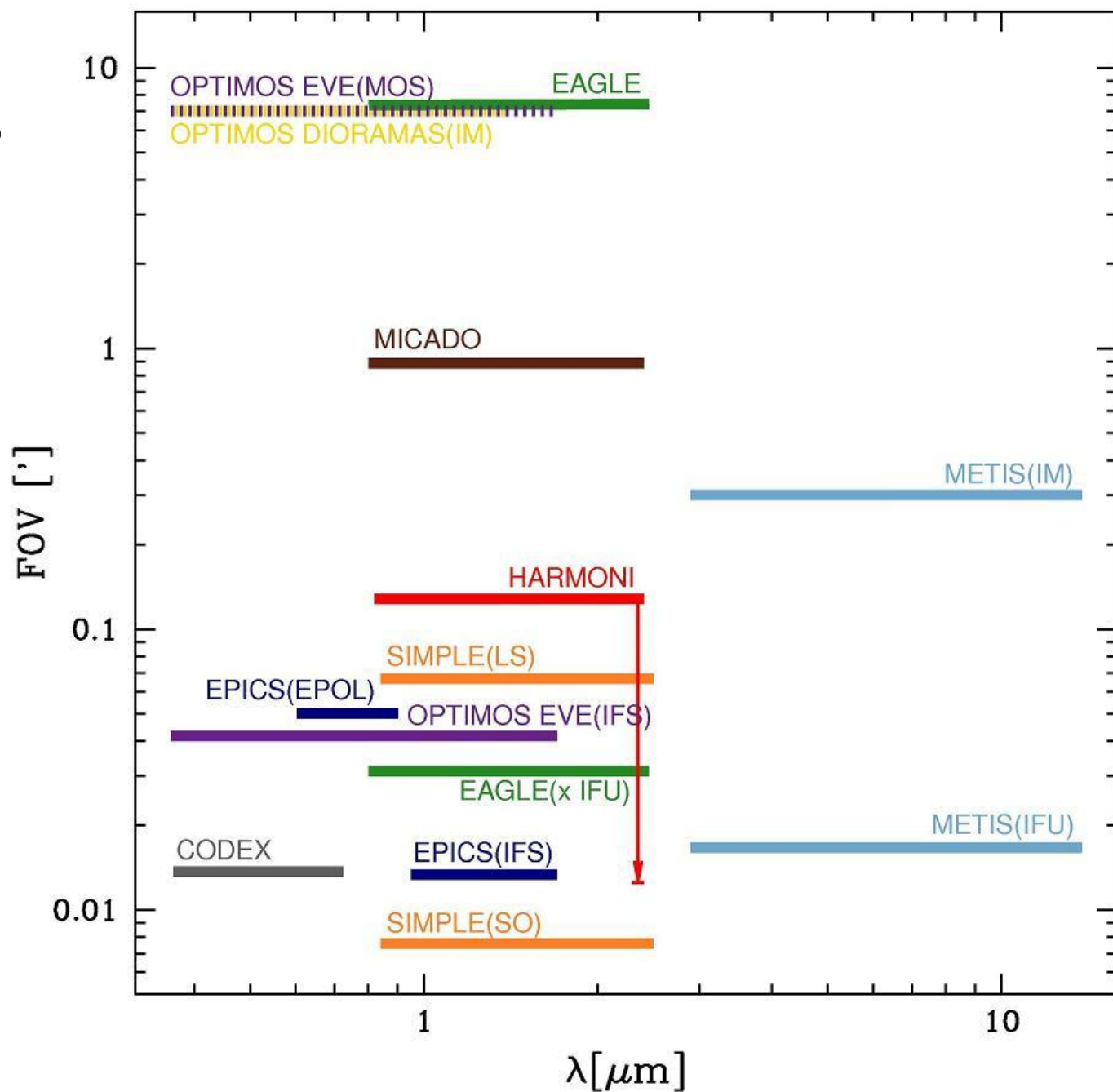
# E - ELT

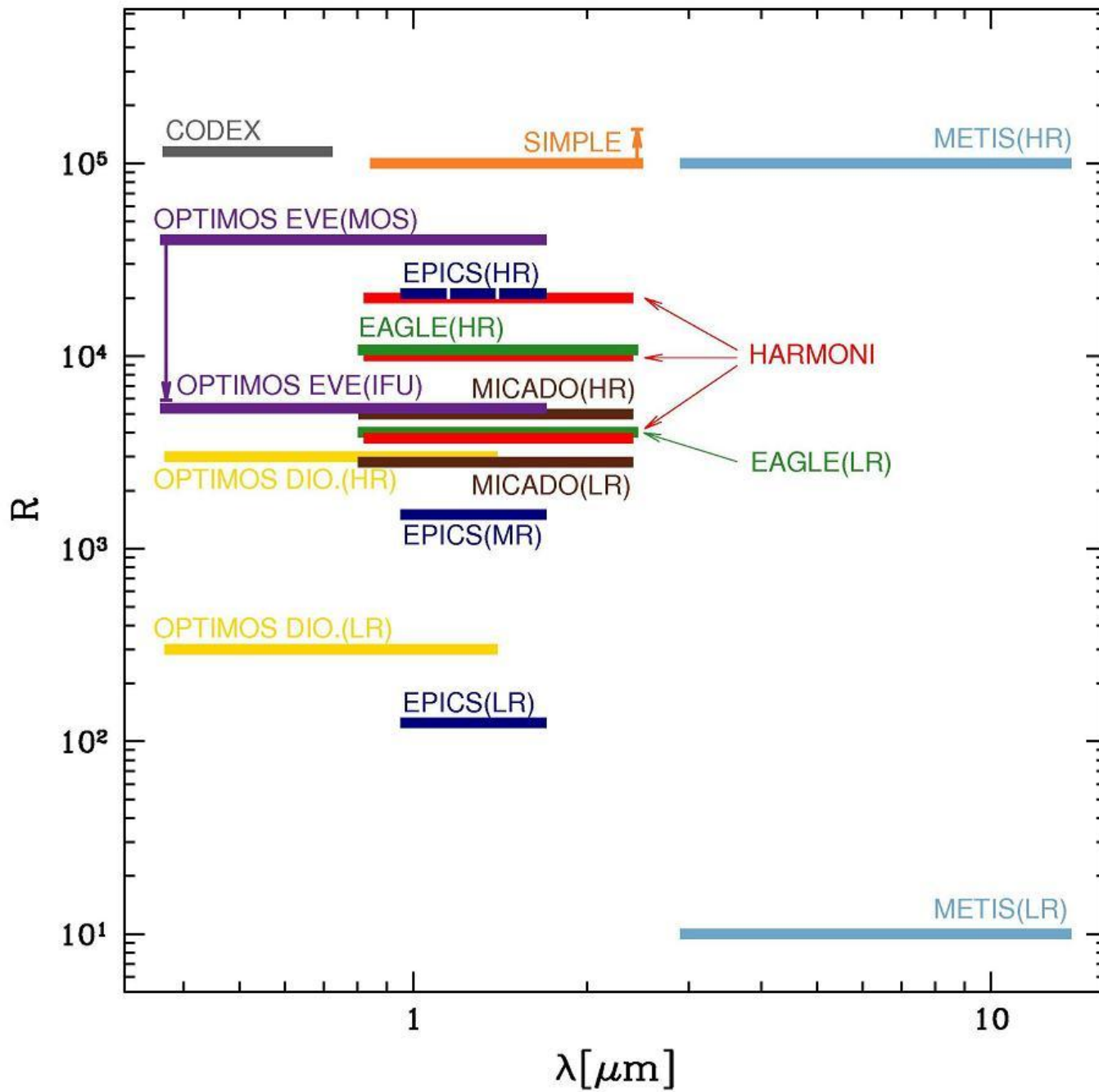
- 42 meter telescope
- Near Paranal (VLT), Chile
- First light: 2018

20 pc diameter

50 kpc

10 Mpc





# Other surveys

- IPHAS/VPHAS+: <http://www.iphas.org/>
- Pan-STARRS:  
<http://pan-starrs.ifa.hawaii.edu/public/>
- UKIDSS: <http://www.ukidss.org>
- VISTA: <http://www.vista.ac.uk/>