E-ELT first light science 2020+

Planets everywhere on all types of "bright" stars

"M stars bias"

next frontier is on biomarkers aspects

High growth rate field of research:

today: cloud, weather, super-Earth, remote systems

what about tomorrow:

ALMA, SPHERE,GPI,8M MOSs, NGTS, Speculoos, Xtra, Mearth, Espresso, Carmenes, CRIRES,…

TESS, CHEOPS, JWST, GAIA,…

Synergies seems of the essence of future major progresses

To enter the club you need a 10^5 entry ticket :

high contrast, high precision, high resolution, high SN

E-ELT:

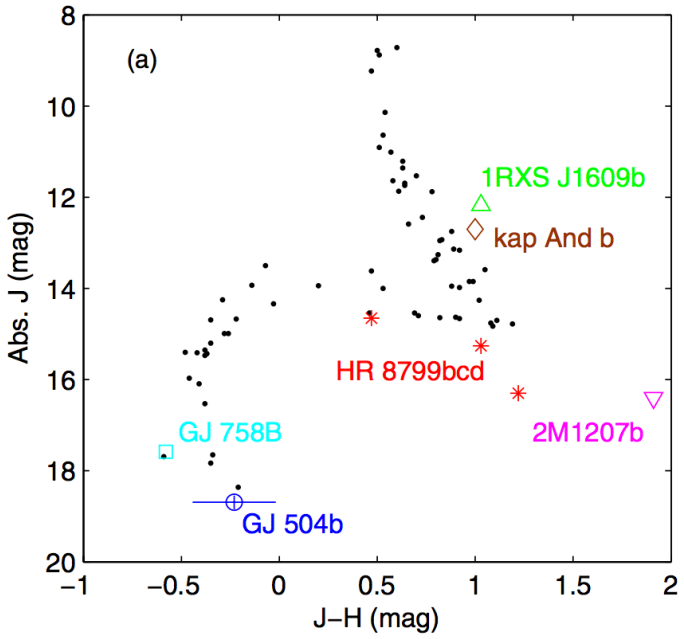
first light instruments: MICADO and HARMONI

We heard a lot about HIRES and METIS

"make use of unique λ/D and 42 yard mirror diameter"

What about GMT – TMT ?

THE ASTROPHYSICAL JOURNAL, 774:11 (18pp), 2013 September 1



Kuzuhara 2013

parallax is less than 42 per cent of the parallax itself, so that the probable error of the resulting absolute magnitude is less than ±1".0.

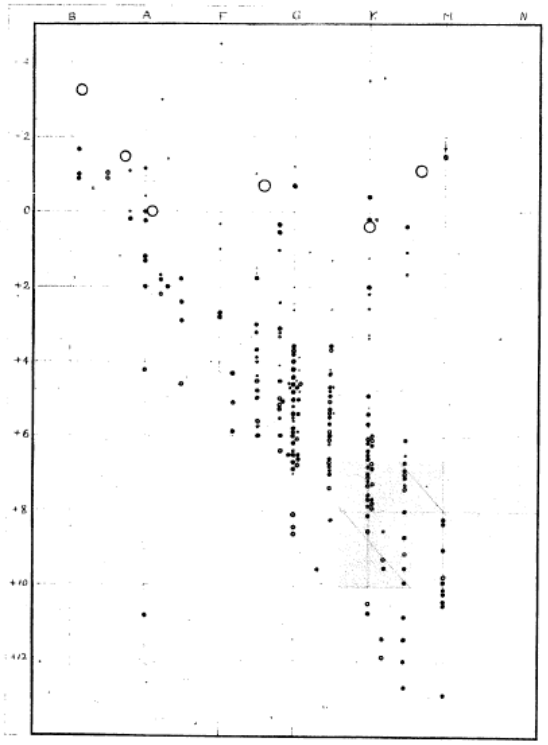


FIGURE 1.

This is a fairly tolerant criterion for a "good parallax", and the small dots, representing the results derived from the poor parallaxes, should hardly be used as a basis for any argument. The solid black dots represent stars whose parallaxes depend on the mean of two or more determinations; the open circles, those observed but once. In the latter case, only the results of those observers whose work appears to

Russell 1914