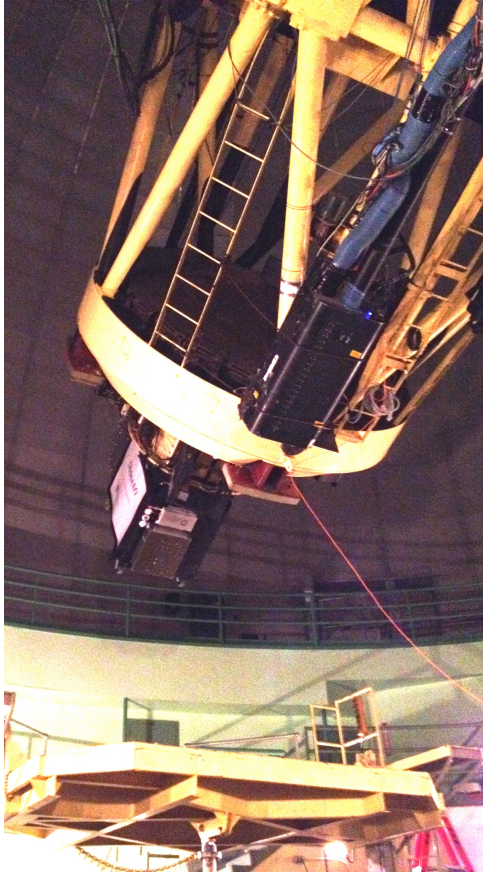


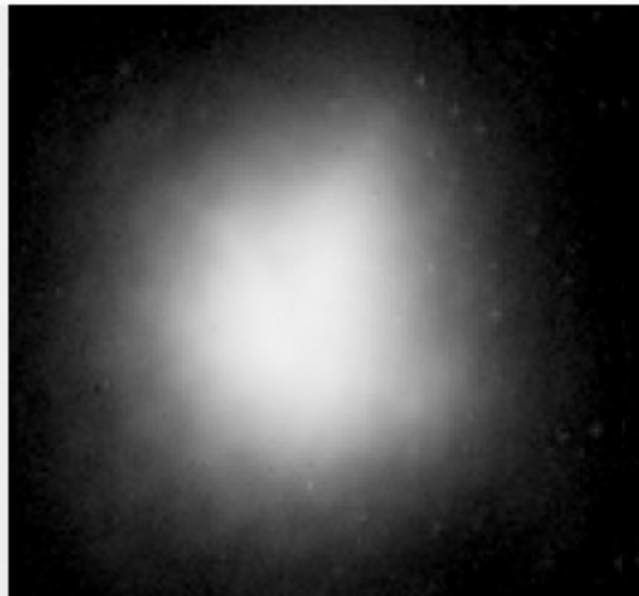
ShaneAO First Light

April 12, 2014

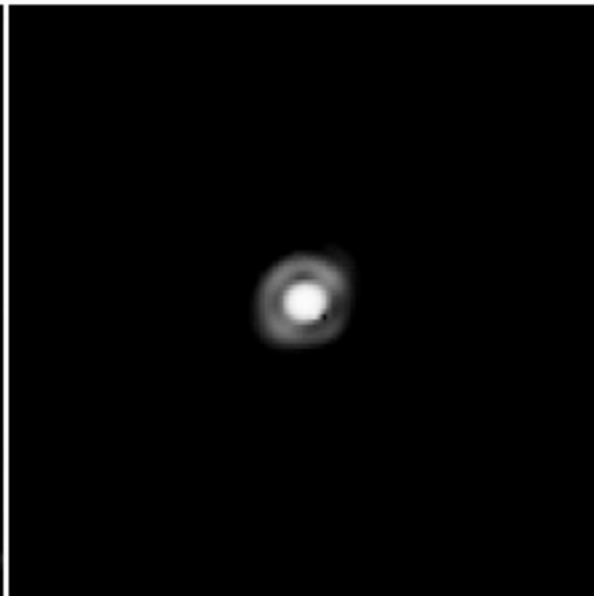


<http://lao.ucolick.org/ShaneAO>

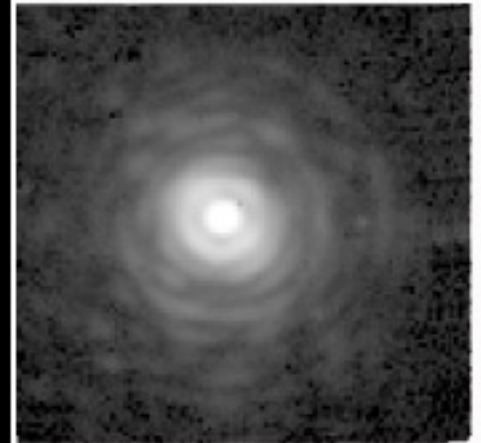
Lick's new Shane AO system: First-light images of a bright star



No adaptive optics

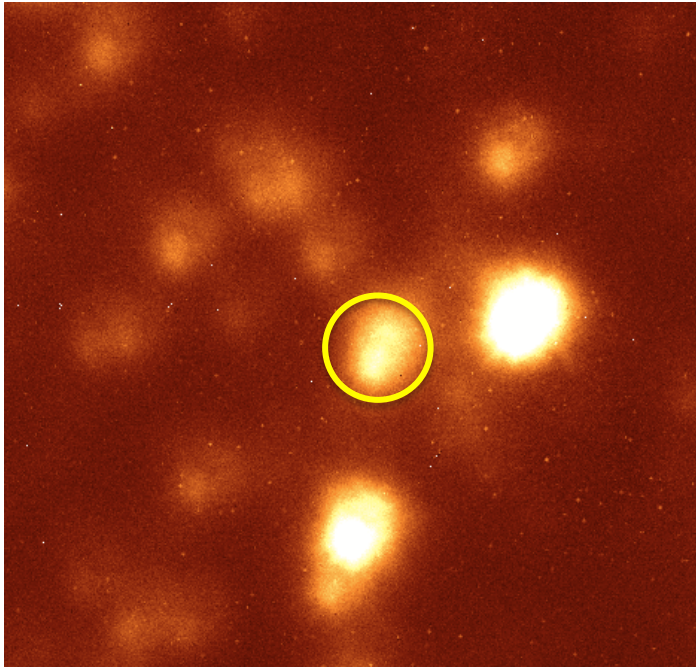


With adaptive optics

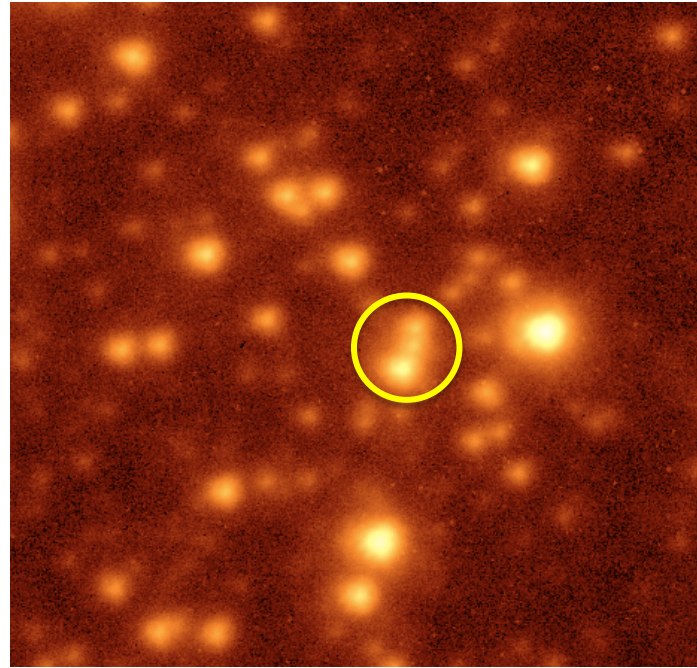


With adaptive optics, logarithmic scale to see detail

Lick's new Shane AO system: Stars in the M92 globular cluster



Shane AO off



Shane AO on



Lick's new ShaneAO system: First Light April 12, 2014



UCSC
astronomy and
engineering
students with
PhD theses
linked to
ShaneAO

- AO control with high performance correction, within the 1st hour on sky
- 3 PhD graduate students and 1 undergraduate helped build and commission ShaneAO; many more will use it
- ShaneAO represents a leap forward for UC astronomy instrumentation
 - Advanced science capability in the hands of UC astronomers at Lick
 - Technology proof for the next generation of Keck and TMT AO instruments