

Figure 4. (a) One of the many short ($t_{\text{exp}} = 0.13$ s) exposures of the stellar cluster surrounding the Galactic centre using the Keck-I 10-m telescope showing the speckle pattern, dominated by one bright speckle. (b) The individual frames are shifted to the same location using a bright reference source. (c) The resulting positions of the stars are shown. (d) The diffraction-limited central $1'' \times 1''$ stellar region surrounding the compact object. From Ghez et al. (1998).

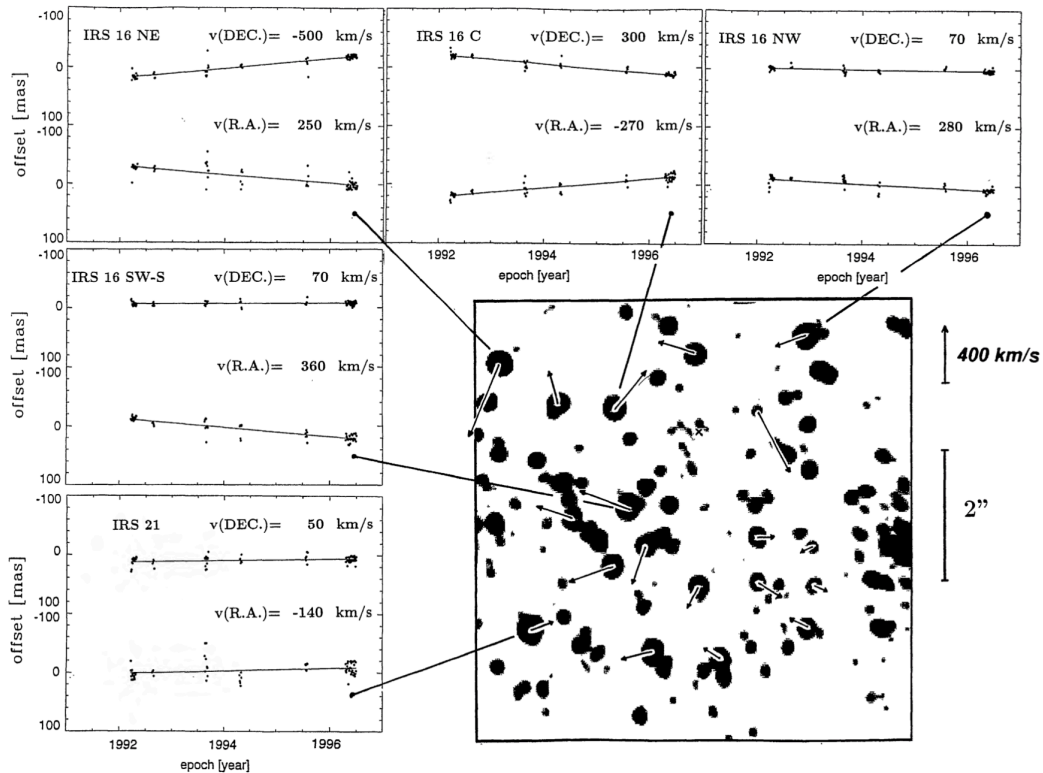


Figure 5. Proper motions and vectors of selected stars surrounding the central compact radio source Sgr A*, marked with a cross. The measurements were carried out over four years and the offsets were determined with respect to the base epoch in 1994. From Eckart & Genzel (1997).