



Figure 5. *Left:* Dependency of the final Strehl ratio on natural seeing and reference star magnitude. The plot is based on observations with 30 ms single frame exposure time in the SDSS z' filter and 1% image selection rate. All Strehl ratios were measured on stars with less than $2''$ separation from the reference star.

Right: Achievable magnitude differences for a 5σ peak detection of a fainter companion to the reference star. All curves refer to a 5% selection rate from 10000 images with 30 ms single frame exposure time, equivalent to an effective integration time of 15 s. The I -band magnitude of all three reference stars was ≈ 10 mag.