



Supplementary Figure 1— **Measured (FWHM) angular size of Sgr A\* vs. observing wavelength.** Blue and green lines represent the best-fit scattering relations of  $1.39\lambda^2$  and  $0.69\lambda^2$  along the major and minor axes, respectively. Black data points (open and filled circles) are size measurements from the quasi-simultaneous observations in February 1997 with the VLBA plus one antenna of the VLA. Red data points are from the best VLBI observations ever made, in terms of the recording rate (thus the sensitivity) and the weather condition, at 7 mm (open and filled diamond) and 3.5 mm (open and filled square), respectively. Here, open symbols are for major axis sizes and filled symbols are for minor axis sizes.  $1\sigma$  error bars are plotted. See Supplementary Information and Table 1 for details.