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Testing the Massive Black Hole Paradigm and GR with Infrared Interferometry¹ REINHARD GENZEL, MPE Garching (and UCB Berkeley)

The GRAVITY near-IR beam combiner allows very sensitive (K 19), phase-referenced milliarcsec K-band imaging and polarimetry, 20-100 micro-arcsecond broad-band astrometry, and micro-arcsecond differential spectro-astrometry with the combined 4 UT telescopes of the Very Large Telescope of the European Southern Observatory. GRAVITY is a game changer in studying the massive black hole in the Galactic Center, and in active galactic nuclei. I will summarize the highlights of the last two years and report new results in using GRAVITY for tests of General Relativity near a massive black hole.

 1 GRAVITY Collaboration