



The active galaxy NGC 1097 located about 47 million light-years away. Ring structure around central region is “expanded” below.



GEMINI OBSERVATORY

Exploring the Inner Sanctum of the Supermassive Black Hole in NGC 1097



Artist's conception of NGC 1097's inner ring structure which is about 4,500 light-years in diameter. This is the region where several thousand spectra were obtained with the Gemini Multi-object Spectrograph to understand the detailed motions of this gas.



Artist's conception of inner 2000 Astronomical Units-wide (about 11.5 light days) accretion disk surrounding supermassive black hole at the core of NGC 1097.

Full-resolution artwork available at:
www.gemini.edu/ngc1097

All artwork courtesy of Gemini Observatory by
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