
At the heart of the center is the Black-Hole Lab[1]" (located in 74-2060) and its advanced computer clusters NewHorizons and BlueSky,[1]
and gravitySimulator[1].

The facility has a 60-ton cooling capacity, which is more efficient than traditional HVAC solutions. BlueSky is a 1040 processor cluster with over 4 terabytes of DDR3 RAM and over 200 terabytes of storage, interconnected with a high-speed network.

Scientists at the center supplement the Black Hole Lab with supercomputing resources at the National Center for Supercomputer Applications. Some of their largest simulations are done at the peta-scale Blue Waters system at the Illinois National Center for Supercomputer Applications (NCSA) and XSEDE resources. "This is one of the most powerful supercomputers in the world available for open scientific research," said Campanelli. "Our resources, combined with CCRG's key experts in the field, are why we are one of the main contributors to the rapid growth of gravitational physics."

Two large displays continually show presentation on gravitational waves and black holes. A mirror from LIGO Hanford is on permanent display in front of the lab.

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