

MIGHTIEST ATOM-SMASHER

At Brookhaven National Laboratory, New York, the cosmotron, the world's biggest atom-smasher, is to be tested. Atomic particles will develop over a thousand million volts in this machine which Doctors Haworth and Collins helped to design. The dangerous experiment is about to begin.

From this control board, the generator is turned on. Switches are pulled and as the generator's flywheel spins, scientists watch on the oscilloscope screen atom particles racing around the cosmotron at nearly the speed of light. In about one second, they make three million trips round the cosmotron - just about five times round the world. And on each trip they gain greater voltage. This machine has nothing to do with atomic bombs or war. Its purpose is purely peaceful and hopes are high that it may shed some light on nature's most mysterious secret - the forces that bind the universe together.

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**COSMOTRON**

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X At Brookhaven National Laboratory, Long Island, New York, the cosmotron, world's mightiest atom-smasher, is tested. The most complete security precautions are observed. In this huge, doughnut-shaped Cosmotron, atomic particles will develop over a billion volts of energy.

Dr. Leland Hawerth, left, director, and Dr. George Gellins, leaders in the Cosmotron's development, watch as the hazardous experiment begins. This control board with its lights and dials turns on the generator. And as the generator's flywheel spins, the oscilloscope shows protons--atom particles--racing around the Cosmotron with almost the speed of light. In about a second, they make three million trips around the Cosmotron--equivalent to five times around the world.

And on each trip they gain greater voltage. The machine's purpose is peaceful--it has nothing to do with atomic bombs. It may even bring solution of nature's most awesome secret--the forces that hold the universe together.